The Mining Journal RAILWAY AND

Forming a complete record of the proceedings of all public companies.

No. 793 .--- Vol. XX.

LONDON, SATURDAY, NOVEMBER 2, 1850.

PRICE 6D.

POT HOUSE BRIDGE IRON-WORKS, NEAR BILSTON.—TO IRONMASTERS, ENGINEERS, AND OTHERS. MR. R. S. WALKER will SELL, BY AUCTION, at the King's Arms Inn, BILSTON, on Monday, November 11, 1850, at Six o'clock in the evening, subject to conditions, the following important PREMISES and MACHINERY. The property comprising Lot I, has been recently erected upon the banks of the Birmingham Canal, and the whole was late in the occupation of Messrs. Arrowsmith

the Birmingham Canal, and the whole was late in the occupation of Mesars. Arrowamits and Davis:—
LOT I.—The POT HOUSE BRIDGE IRON-WORKS, for a term of 14 years, from the 29th Sopt., 1849. A purchaser has the option of giving up possession of the land at the expiration of the 14 years, and removing the creedons and machinery, or frenewing the lease for 14 years, with the like power of removal.

The PLANT includes a 35-horse power condensing engine, a 25-horse power horizontal engine, to drive the machinery, a 10-horse power horizontal engine, with laths for turning rolls, blowing apparatus, large forgo haumer, about 40 pairs of rolls, with machinery complete, six puddiling furnaces, two cupolas, drying, heating, and air furnaces.

These works are capable of producing from 70 to 80 tons of manufactured iron per week.

LOT II.—The GOOWILL and IMMEDIATE POSSESSION of the ENGINE YARD, near Lot I. The BUILDINGS consist of several workshops, engine and storehouses, blacksmiths' shops and offices, with a 10-horse power engine and sarge lathe.

To view the lots apply to Mr. Berkeley, upon the premises; and a plan of the works and machinery may be seen, and further particulars obtained, on application to Mr. T. M. Whitehouse, attorney-at-law, or the auctioneer, both of Wolverhampton; or to Mr. Wight, solicitor, Kingswinford.

DEAN FOREST.—VALUABLE COAL AND IRON WORKS.

In opportunity seldom offered for acquiring a lucrative and first-r

Affording an opportunity soldom offered for acquiring a lucrative and first-rate concern.

MESSRS. ADAM MURRAY & SON are instructed to SELI.

BY AUCTION, at the King's Head. NewPOET. MONMOUTHSHIRE, on Saturday, the 16th day of November next, at Twelve o'clock, at noon (unless an acceptable offer be previously made). ALL THE IRON AND COAL WORKS, situate at BREAM, in the hundred of ST. BRIAVELS, GLOUCESTERSHIRE, now in the occupation of the BROMLEY HILL IRON AND COAL COMPANY.

The COAL-WORKS comprise two gales of the WHITTINGTON OR-YARD DELF VEIN OF COAL, known as the Bromley Hill level, and the Midsummer level, amounting to 200 acres, subject to a Royalty to the Grown of 14d, per ton, or a minimum rent of £4 a-year. Adjoining, is the BROMLEY HILL IRON MINE, of 400 acres, subject to a Royalty of 1d, per ton, and an annual rent to the Crown of £12. A well built BLAST FURNACE and a STEAM-ENGINE of 45-horse power, with various buildings, are erected on the mines, and a nev-réalting stream of water truns through them. These mines are well situated both for railway and water carriage.

For further particulars, apply to Mr. Arthur Ryland, solicitor, Cherry-street, Birmingham; Mr. Reginald A. Parker, solicitor, Old Jewry Chambers, London in Fryer, solicitor, Coleford; or to Mesars. A. Murray and Son, 35, Craven-street, Strand, London.

solicitor, Coleford; or to Messrs. A. Murray and Son, 35, Craven-street, Strand, London.

THE GREAT SALE AT THE BRITANNIA TUBULAR BRIDGE
Is positively fixed to take place on TUESDAY, the 19th day of NOVEMBER next, 1850, and many following days.

MESSRS. CHURTON have been instructed by the Directors of the Chestre and Holyhead Rallway to SELL, BY AUCITON, on Tuesday, the 19th day of November, 1850, and many following days, the whole of the PLANT, ROPES, CAPSTANS, CHAINS, HYBRAULIC PRESSES, and other MACHINERY, used in the Floating and Erection of the BRITANNIA TUBER.

Comprising 120,000 cubic feet of well-seasoned PINE TIMBER, in whole and half balks; 100 tons of large HEMP and MANILLA ROPES, nearly new; 3 powerful HYDRAULIC PRESSES, 2 20-horse power STEAM-ENGINES, with force pumps and tubular bollers; about 100 tons of excellent SUSPENSION BRIDGE CHAIN, in 6-feet links, suited for a bridge of 150 feet; 2 handsomely-made IRON PONTOONS, designed for floating landing stages; 8 large and powerful capstans, with oak bars; a large assortment of blocks and sheaves of nunsual size; about 50 tons of chains and cables, 2 large free-engines, with 7-inch pumps, hose, and apparatus complete, single and double purchase crabs, a number of rowing boats, workshops, store-rooms, and sundries.

Any further information may be obtained upon application to Edwin Clarke, Eq., Britannia Bridge, Bangor; or Messrs. Churton, auctioneers, Chester.

N.B.—Preliminary calalogues are just published, and may be had free upon application to Messrs. Churton, auctioneers, Chester. Full descriptive ones will shortly be ready for distribution.—Chester, October 28, 1850.

SPARE STEAM-ENGINE AND MATERIALS FOR SALE.

SPARE STEAM-ENGINE AND MATERIALS FOR SALE.

MR. GUMMOL has received instructions to SELL, BY
AUCTION, at ROCKS AND TREVERBYN UNITED MINES, in the parish of
ST. AUSTELL, CORNWALL, on Wednesday, the 37th day of November next, the following SPARE MACHINERY and MATERIALS:—
Comprising an excellent 70-inch STEAM-ENGINE, 10 and 7½ feet stroke, recently
fitted with entirely new working gear, valves, condensing apparatus, &c., with 26 tons
of new bollers.

3tted with entirely new working gear, valves, condensing apparatus, &c., with 26 ten of new boilers? 16-inch PUMPS, with plunger bottom to fit.

1 18-inch pole, H and doorpiece, 1 large oak capstan axle, with cast centre piece. Several 11 and 12-inch pumps, 1 12-inch pole and bottom. An 18-feet WATEL, and 8-head stamps, complete.

1 horse-whim, sundry lots of chain, timber, and other articles. For inspecting the above, and for further information, apply to Mr. Gray, engineer Rocks and Treverbyn United Mines, St. Austell, Cornwall.

The Sale will commence at There'se o'clock precisely.

Dated Imperial Fire and Life Insurance Offices, St. Austell, Oct. 30, 1850.

UPSET PRICE REDUCED. UPSET PRICE REDUCED.

AST OF SCOTLAND MALLEABLE IRON-WORKS.—

TO BE EXPOSED TO SALE, BY PUBLIC AUCTION, within the TOWN-HOUSE, DUNNERMLINE, on Wednesday, the 6th day of November next, at Twelve o'clock noon, the EAST OF SCOTLAND MALLEABLE IRON-WORKS, at DUNNERMLINE, comprising.—A STEAM-ENGINE, of 60-horse power, working the machinery, consisting of FORGE and 2 PUDDLE BAR TRAINS, of 16 in. diameter, HAMMER and PATENT SHINGLING MACHINE; also a 16-in. MERCHANT BAR OF RAIL MILL, at Puddling FURNACES and 6 MILL FURNACES, the whole capable of producing 120 tons at bar-iron weekly.

DAR-IFON WEEKIY.

A REFINERY STEAM-ENGINE, of 45-horse power, with blowing apparatus, con

A REFINERY SIEAM-ENGINE, or state plete, and two fires erected.

A complete SET OF WORKSHOPS, containing a 20-horse power STEAM-ENGINE, driving a powerful ROLL TURNING LATHE.

A PUMPING and CLAY MILL STEAM-ENGINE, of 16-horse power, used for the manufacture of fire-brick and pumping water for supply of engines.

Also the ESTATE of TRANSY, consisting of about 107 imperial acres, with elegant MANSION-HOUSE and PLEASURE GROUNDS, situate about haif a mile to the east of the town of Dunfermline.

MANSION-HOUSE and PLEASURE GROUNDS, situate about haif a mile to the east of the town of Dunfermline.

The above will be put up in one lot, at the reduced upset price of £16,000; if not sold in one lot, the Iron-Works will be then exposed separately, at the very low upset price of £5500; and if the Works be disposed of, the Estate will then after be put up at the sum of £5500.

The purchaser of the works will have it in his option to take all the necessary tools, loose machinery, and stocks of different kinds, at a valuation.

There will also BR 50LD, a STEAM-ENGINE, 676-horse power, intended to drive the colling-mills, apart from the forges, with strong cast-iron framing and relative machinery.

For further particulars, application may be made to Mr. James Inglis, the Chairman of the Board of Management; or to Johnstone, Russell, and Craig, writers, in Dunfermline, in whose hands may be seen the title deeds of the lands and articles of roup.

Dunfermline, Getober 3, 1850.

EXTENSIVE IRON-WORKS AND MINERAL LEASES ing to the AYRSHIRE IRON COMPANY, situated in the parish of DALRY and county of AYR, consisting of TWO BLOWING ENGINES, FIVE BLAST-FURNACES, FOUNDRY, PIT ENGINES, and other requisite utenals for the furnaces and working the minerals, all in working order, besides nearly TWO HUNDRED WORKMEN'S HOUSES. The extensive MINERAL FIELDS consist of BLACKBAND, IRONSTONE, COAL, LIMESTONE, and FIRE-CLAY, held under long leases, at moderate fixed rents and cryatites, all in the immediate neighbourhood of the furnaces; and the works having a connection with the Ayrshire Railway, command greatfacilities for transit and shipping of the produce. There is a large STOCK of IRONSTONE on the ground, which may be itself at a talustion, and considerable progress has been made in the

connection with the Arjania and STOCK of IRONSTONE on the ground, which may be itad at a valuation, and considerable progress has been made in the ERECTION OF MALLEABLE IRON-WORKS, in connection with the farnaces, which may also be had.—The above are well worthy the attention of capitalists and parties in search of mineral fields.

For further information apply to Mr. Brown, 35, St. Vincent-place, Glasgow.

MINES.—FOR SALE, BY PRIVATE CONTRACT, the following PROPERTY, belonging to the GERMAN MINING COMPANY OF

LONDON—viz.:
Several very productive COPPER MINES, attuated at DILLENBURGH, in the Duchy of NASSAU, Germany, with SMELTING-HOUSE, OFFICES, STEAM-ENGINE, PUMPS, MINING TOOLS, &c. &c.
Also, TWO LEAD MINES, attuated about 5 miles from Dillenburg, in the PRUSSIAN TERRITORY, which are now working with great prospective advantage.
Also, TWO IRONSTONE MINES, attuated at MUSCHELLACH, near Hackenburg. The whole of this property lies within an easy relative distance, and might be worked ander one superintendence.

ander one superintendence.

The celebrated QUICKSILVER MINES, LANDSBERG and STATILBERG, situated at OBERMOSCHEL, in RHENISH BAVARIA, with RESIDENCE, &c. &c., are also OFFERED FOR SALE.

for further particulars apply to Mr. T. Hacket, 26, Birchin-lane; Mr. H. J. Morris, Southampton-buildings, Chancery-lane; Messra. Stokes. Hollingsworth, Tyerman, Johnston, solicitors, Gresham-street, and to Mr. T. R. Hacket, the manager of the 18th, 45 Dillenburg.

MR. JAMES CROFTS, in renewing his offers of services to Capitalists in favour of INVESTMENTS in BRITISH MINES, is encouraged to refer, in terms more marked than he has hitherto done, to the classes of Mines either paying dividends or progressing rapidly towards that satisfactory position. Such remarkable success has attended the workings of numerous Cornish Mines during the last few months, as to demonstrate that it is only necessary to make a judicious selection of the adventure to insure profits quite as certain as any moreantile speculation whatever; and Mr. Corfts will be happy to indicate such undertakings as present the greatest chances of permanent dividends, or ultimate success in the workings, whether on a large or a small scale.

or a small scale.

Mr. GROFTS takes this opportunity of referring to the important movement which has recently taken place for the establishment of a MINING SHARE EXCHANGE, as calculated to place buyers of shares, and the business generally, upon a sound basis, by approximating the interests both of buyer and seller more closely than hitherto, and, by the exercise of the powers proposed to be rested in the Committee of Mananement, to confine the business of the Exchange to bond file undertakings only.

MR. CROFTS HAS FOR SALE :

Also, LAMHEROOE, WHEAL SARAH, and WHEAL VINCENT.

Mr. CROPTS will punctually attend to communications from the country, wheth
the sale or purchase of shares, and transacts business only for principals.

No. 4, King-street, Cheapside, Nov. 1, 1850.

No. 4, King-street, Cheapside, Nov. 1, 1850.

MINING AND GENERAL AGENCY OFFICE,
Mr. R. TREDINNICK begs to inform his Friends and the Public of his REMOVAL to
the above COMMODIOUS ROOMS, in the Hall of Commerce, where he purposes to hold,
in addition to his general Agency Business, PERIODICAL SALES, BY AUCTION, of
SHARES in MINES, RAILWAYS, BANKS, CANALS, INSURANCE, and OTHER
COMPANIES; also Reversions, Annuiltes, Bonds, &c., together with Estates, Houses,
and Property of every description.
SHARES BOUGHT and SOLP ON COMMISSION, and MONETARY MATTERS of
every kind NEGOCIATED; Statistical and General Information afforded gratuitously,
upon personal application.
Mr. T. offers to the mining world the opportunity of exhibiting in his Public Sale
Rooms, Reports, Plans, Sections, and Specimens of Mines and Mineral Districts, whether
situate in the United Kingdom, Foreign, or Colonial Possessions, upon forwarding the
same, free of expense; as also Plans, Sections, &c., of Estates, Houses, and other Property for Sale.

FRON FAWNOG MINE, MOLD, FLINTSHIRE.

FRON FAWNOG MINE, MOLD, FLINTSHIRE.

VALUABLE MACHINERY AND MATERIALS FOR
SALE, BY PRIVATE CONTRACT.—A 60-inch STEAM-ENGINE, 10 ft. stroke
in the cylinder, and 9 feet in the shaft, with case, top and bottom, bright geering, double
cateract parallel motion, east-iron condersing clastern plunger and condensor, all very
complete, with first piece of main-rod and connection.

This engine was made at the Hawarden Iron-Works, about five years ago, is highly
finished, and an excellent working engine.

An 18- inch HIGH-PRESSURE ENGINE, 4 feet stroke, with fly and spur-wheels, winding case, See, complete.

ng cage, &c., complete.

SEVEN CYLINDRICAL BOILERS, from 29 to 35 feet each in length, and 44 to 54 feet diameter, in good repair, with steam and feed connections, fire doors, bars, bearers,

inches bore.

FLUNGER POLES, 18, 14\frac{1}{2}, 7\frac{1}{2}, and 5 inches diameter.

FLUNGER POLES, 18, 14\frac{1}{2}, 7\frac{1}{2}, and 5 inches bore.

Application for prices and particulars to be made to the manager, Mr. Robert WilliamsTy'ntwll, near Mold, Flintshire.—Mr. William Bowen, the agent on the mine, will show
the lots.—Fron Fawnog Mine, Oct. 29, 1850.

The lots.—Fron Fawnog Mine, Oct. 29, 1850.

VALUABLE MINERAL PROPERTY TO BE IN PART
OR WHOLLY DISPOSED OF.—This most desirable METALLIFEROUS SETT,
consisting of nearly 2000 acres, is situated in one of the renowned mining districts of
central WALES. One discovery of SILVER-LEAD ORE, made upon it some few months
ago, was considered of so singular and promising a nature, that a brief account of it was
then published, and subsequently copied into most of the leading papers of the kingdom.
Since that period a shallow sink has been made on the lode, which is 6 feet wide, traversing a beautiful soft whitish killss. The analysis of the ore, of which there is about
20 tons on the bank, gives 75 per cent. of lead and 80 ounces of silver to the ton; indeed,
the last assay of the ore, found at about 7 fathoms from the surface, gave the extraordinary quantity of 200 ounces of silver to the ton. There is a fine mixture or lead ore at
the bottom of the present shallow shalt. The mine is but 9 miles (of good turnplic-road)
from the shipping port, and a fine stream of water runs, close past it, offering every facillity for the development of its invaluable mineral resources.

For further particulars apply (post-paid) to "X. Y. Z.," at the office of the Mining For further particulars apply (post-paid) to "X. Y. Z.," at the office of the Mining ournal, 26, Fleet-street, London.

WHEAL OAK.—In 1080 shares, of Twenty-five Shillings each.

A GENERAL MEETING of adventurers will be HELD at the Mine on Thursday, the 7th day of November, at Eleven o'clock precisely. No applications can be received after Tuesday next, the 5th November, for the few remaining shares, and such only to the purser, Mr. John Trethowan, Little Falmonth, Flushing, Cornwall. A remittance must at the same time be made to Messurs. Tweedy and Co., bankers, Falmonth, when the necessary transfers will be immediately transmitted; and should all the shares be previously allotted, the bankers will return the money forthwith, without charges of any description.

WEST PHENIX MINE.—Notice is hereby given, that
NO FURTHER APPLICATION FOR SHARES will be RECEIVED after
THURSDAY, the 14th day of November inst.
By order of the Committee,
Outed Exeter, Nov. 1, 1850.
CHARLES COLLINS, Purser,

WEST PHENIX MINE, in the parishes of LINKING-HORNE AND ST. CLEER, NEAR LISKEARD, CORNWALL. At a Meeting of Shareholders, held at the offices of the Company, No. 14, High-street, Exeter, on Monday, the 14th day of October, 1850,

Exeter, on monary, the late age of occoors, isou,

JEFFERY LANG, Esq., M.D., Chairman.

Several reports and other documents having been read, whereby the evidence is conclusive and undeniable, as regards the West Phoenix lode being the same as the Phoenix, on which an immense quantity of rich ore is now raising; and as it is fully demonstrated to this meeting that similar large deposits positively exist in the West Phoenix sett, and at a very shallow depth,—Resolved,—That the mine be proceeded with immediately, and that the utmost economy be observed in carrying on the works.

be observed in carrying on the works.

Resolved,—That a committee be appointed to carry such object into effect, consisting of Jeffery Lang, Esq., Mr. W. Milton, W. Witchurch, Esq., Mr. W. G. Titherley, Mr. Henry Vatcher, John Symons Higgs, Esq., Chas. Richards, Esq., Mr. William Chaming, Mr. W. Luxmor Jones, Robert Serjeant, Esq., Mr. Wm Balle—the committee having offered their services gratuitously. Resolved,—That an early day be fixed by the committee for closing the sare list. Resolved,—That the best thanks of the meeting be given to the chairmn for his able conduct in the chairm. (Signed)

JEFFERY LANG, M.D.

Resolved,—That the best thanks of the meeting be given to the chairman for his and conduct in the chair.

This invaluable mine adjoins the Pheenix, whose riches as a copper and tin mine now prove enormous. The lodes in the West Pheenix sett are parallel, and not far from the south and West Caradon Mines—the shares of the former originally cost 25, and now selling at 250; the later 250, and now selling at 250. The two great cross-courses of South and West Caradon pass through this sett. The lode in West Pheenix sett is large, varies from 10 to 20 feet wide, strong and well-defined, is the same lode as the Pheenix, and carries precisely the same indications. It is also ascertained that a rich course of ore now exists in the 13 fathom level, 14 inches wide, and worth from 250 to £100 per fathom. The small sum of £1150 has been paid for the sett, which will be reimbursed. The reports, from Evan Hopkins, Esq., No. 13, Austinfriax, London, and Captain Samnel Seccombe, agent of the Pheenix Mine, demonstrate satisfactorily that the West Pheenix Mine is no speculation, but only requires capital to develope the riches which are positively known to be in this set. The ground being easy, the work will be rapidly accomplished. Five hundred and fifty shares are only now issued to the public—the remainder of the 1024 are reserved to the owners of the mine, agreeably to the conditions of the Cost-book. The calls will not exceed £1 per share serve yive months, and it is estimated that before £7 or £8 per share is expended the mine will be in rich and profitable working. A 30-inch legilider steam-engine has already been purchased. The mine will be worked with the strictest economy, under the superintendence of the best practical agents. A large number of the shares are already taken up.

Respectable parties willing to secure a few of the remaining shares are instructed to make early application, accompanied with a reference, to James Lane, Esq., 30, Old Broad-street, London; or to John Symons Riggs, Esq., 2, Chichester-place, Ex

WANTED,—A double power CONDENSING ENGINE, to drive machinery from 8 · to 100-horse power; length of stroke of steam cy-linder to be from 7 to 10 feet long.—Apply by letter (post-paid), with every particular, to Mr. P. Higson, Grompton-road, Macelesdeid.

WANTED, a SECOND-HAND HORIZONTAL ENGINE, in good repair; cylinder from 18 to 20 inches diameter—stroke 2 feet 6 inches.

Apply to "H. C. I.," at the office of the Mining Journal, 26, Fleet-street, London.

TEAM-ENGINE FOR SALE.—TO BE SOLD, BY
PRIVATE CONTRACT, a 32-inch cylinder STAMPING ENGINE, single acting,
9 feet stroke in cylinder, with steam case, belier, about 11 tons, and axies and frames for
19 heads.—Applications to be made to Hocking and Loam, engineers, Redrath.
Dated June 26, 1850.

TO FOREIGN CAPITALISTS OR OTHERS .- TO BE DISPOSED OF, a very VALUABLE PATENT FOR FRANCE, and also ONE FOR BELGIUM, both taken out in the year 1948, for an invention for which Letters Patent had previously been granted for Great Britain and Sociland, and which is now in successful operation in many of the large mining districts. The price at which the above would be sold will yield a very large return upon the purchase-money. Full particulars may be obtained by addressing a letter (pre-paid) to "L. M.," at the office of the Mining Journal, 26, Fleet-street, London.

TO FOREIGN IRON AND COAL COMPANIES. A Gentleman, now and for 12 years past engaged with one of the largest and necessfully conducted companies in Wales, is desirous of an ENGAGEMENT AD. Salary a secondary consideration: the first references.—Address "H. L. D.," office of the Mining Journal, 26, Fleet-street, London.

DORROWDALE BLACK-LEAD, OR WADD MINES.—
TO BE LET a MOIETY of these celebrated MINES: they are worked at a very
small expense, and offer great inducements to any parties willing to prosecute the operations with energy—the discovery of a good vein being in itself a fortune. For particulars apply to H. D. Francis, 4, Monument-yard, London.

CAST EDMONDSLEY COLLIERY.—TO BE SOLD, OR LET, the CURRENT-GOING COLLIERY OF EAST EDMONDSLEY, in the county of DURHAM, containing 174 acres, or thereabouts, held under loases, of which about 30 yours are unexpired. The coal has been sold in the markets as "Gibson's Wall's End." and "North Durham Wall's-End." The purchaser or lessee will be required to take the engines, &c., at a valuation, which will be of small amount. For further particulars apply to Mr. William Barkus, viewer, Lowfell, Gateshead.

CHARES IN A COPPER MINE are OFFERED to CAPITALISTS on ADVANTAGEOUS TERMS. The MINE is situated in one of the
most favourable districts in the WEST OF ENGLAND: is complete in all needful machinery, and will soon yield an ample return for the capital invested. Reference may be
made to Mr. Evan Hopkins, C.E., F.G.S., &c., Consulting Mining Engineer, 13, Austinfriars, London.—Apply to Messrs. Cornthwaite and Wilson, solicitors, 14, Old Jewry
Chambers, London.

MR. J. C. NESBIT, F.G.S., F.C.S., CONSULTING AND ANALYTICAL CHEMIST.

LABORATORIES-38, KENNINGTON-LANE, LONDON.

Mr. NESBIT gives PRIVATE INSTRUCTIONS in CHEMICAL ANALYSIS, and may be consulted on subjects connected with the Composition, Working, or Assaying of Minerals.—Analyses of Minerals, Slags, Soils, Manures, &c. &c., performed as usual, on moderate terms.

MINING SHARES.—JOHN DAVIES, No. 38, TOWER-BUILDINGS, TOWER GARDEN, LIVERPOOL, begs respectfully to inform the public that he is prepared to BUY and SELL SHARES in all DIVIDEND-PAYING MINES, and to give every information relative to such property.

MINING—COMPANIES of respectability requiring OFFICES for CARRYING on their AFFAIRS in LONDON, including MANAGEMENT, may be ACCOMMODATED on application to Mr. FENTON, No. 5, WHITE HART-COURT, LOMBARD-STREET.—SHARES ON SALE in those well-known divident paying Mines, South Caradon, Providence, Spearne Consols, Carn Brea, Wheal Rose, &c., and a FEW for DISPOSAL in those promising adventures Wheal Arthur, Wheal Oak, Warloggan Consols, South Relistian, &c.

MINING PROPERTY.—BUSINESS transacted in every description of MINING PROPERTY, SHARES BOUGHT and SOLD, ADVICE GIVEN to PARTIES as to INVESTMENT, ADVANCES of MONEY MADE on this DESCRIPTION of PROPERTY, Statistics given on Mines, and the earliest information obtained from the mineral districts.—Apply to DURRANT & CO., Mining Sharebrokera, 98. Lombard-street.

MINING OFFICES,—48, THREADNEEDLE-STREET,
LONDON.—Messrs. FULLER & CO., beg respectfully to inform the public that
they are in a position to BUY and SELL SHARES in all the DIVIDEND-PAYING
MINES, and have on hand Devon Great Consols, North Pool, Russell, North Levant,
South Carn Brea, Warleggan Consols, Wheal Elizabeth, Harris, &c.
WANTED—East Russells.—Nov. 1, 1850.

MINING OFFICES, ST. MICHAEL'S CHAMBERS,
Mr. R. TRIPP, MINING AGENT, has for SALE SHARES in most of the best DIVIDEND-PAYING MINES, and others, including—Wheal Margaret, Botallack, South
Wheal Frances, South Wheal Basset, South Caradon, West Caradon, Treviskey and Barrier, North Pool, Tincroft, Hennock, Treville, Tamar Consols, Drake Walls, West Wheal
Treasury, Spearne Consols, &c.—Forrier, Linares, Santiago, United Mexican, &c.;
and is a BUYER of Dovon Great Consols, Wellington, Alfred Consols, St. Aubyn and
Grylls, Wheal Mary Ann, Wheal Breth, and Trelawny mining shares.

MINES.—MOLYNEUX & CO., 6, FINSBURY-PLACE SOUTH, and 6, WEST-STREET, FINSBURY-CIRCUS, have SHARES FOR SALE in DIVIDEND-PAYING and OTHER MINES, which will ensure to capitalists the safest and most unexceptionable investment.—Office hours from Ten to Five o'clock.

MANUEL AND CO., MINING AGENTS, are instructed to SELL in the following DIVIDEND-PAYING MINES:—South Frances, Wheal Seton, Treviskey, South Basset, &c., also in other mines, including—Runnaford Coombe, Great Wheal Michell, West Wheal Rose, and Graig-y-Mwyn, &c.

Office, 42, Fish-street-hill, London.

MESSRS. BOXALL & CO., MINING SHARE DEALERS, 5, CROSBY HALL CHAMBERS, BISHOPSGATE-STREET.

CREFT AND CO., 1, ROYAL EXCHANGE BUILDINGS, LONDON, can always BUY or SELL every description of MINING SHARES. WANTED, Peter Tavy and Mary Tavy shares, for which a large premium will be given.

JAMES LANE, MINING SHARE DEALER, 80, OLD BROAD-STREET, LONDON.

MINING COMPANY OF WALES.—PROSPECTUSES, and Conditions for its Government, &c., may be had of ST. PIERRE FOLEY, Secretary, to whom letters on the alloiment of shares, and on the general business of the Company are to be addressed.—Offices, 24, Lincoln's Inn-fields, London.

A SSAYING AND ANALYSIS.—ASSAYS and ANALYSES of MINERALS, METALS, SOILS, FURNACE, and all other MANUFACTURING PRODUCTS. INVENTORS and INTENDING PATENTEES assisted in PERFECTING any INVENTION involving an intimate knowledge of chemistry.

INSTRUCTION in all branches of ASS of ASSAYING, ANALYSIS, and METALLURGICAL Communications to be addressed to Mr. Mitchell, 23, Hawley-road, Kentish Town.

DICKFORD'S PATENT SAFETY FUSE.—The Patentees of the ORIGINAL, and only real, SAFETY FUSE, beg to inform Merchants, Mine Agents, Railway Contractors and all persons concerned in Blasting Operations, that, for the purpose of protecting the public in the use of a genuine article, the PATENT SAFETY FUSE has now a thread wrought into its centre, which being patent right, infallibly distinguishes it from all iminitions, and ensures the continuity of the gunpowder The Safety Fuse is now protected by a Second Patent, and manufactured by greatly im proved machinery.

BICKFORD, SMTTH, DAVEY, Camborne, Cornwall.

STEAM-ENGINE INDICATORS, OIL TESTS, COUNTERS, SALINOMETERS, &c. &c.—Mr. W. RELD WHYTEHEAD, CONSULTING ENGINEER, begs to inform the Profession that he has a STOCK of these INSTRUMENTS always ON SALE.—Plans and Mechanical Drawings of every description Copied, Reduced, and Lithographed—Working Drawings of Land and Marine Engines and Machinery designed on the most approved principles—Engines Indicated, and their Working Order Improved, wherever practicable.

OFFICE-No. 60, CORNBILL, LONDON.

ARREST AND CONTROL OF TAXABLE

THE COAL TRADE.

THE COAL TRADE.

An interesting event in connection with the coal trade occurred last week at Newcastle-upon Tyne. We refer to the dinner given in honour of Mr. Hugh Taylor, chairman of the coal trade, which was presided over by Matthew Bell, Esq., M.P., supported by a large number of gentlemen anxious to do honour to their respected guest. The health of Mr. Hugh Taylor was proposed by the chairman in terms expressive of his high respect for his character, and was received with corresponding warmth and cordiality. In acknowledging this tribute of respect, Mr. Taylon gave a brief retrospect of the history of the coal trade. He said it was about the year 1290 that they first heard of its operations in this district. Complaint was made, at that time, of the injury inflicted by coal amoke upon the metropolis. Little record of the trade was in existence of earlier date than 1665, at which time the annual vend amounted to 660,000 tons. Coming down to 1710, they found the Legislature restricting what was called the "monopoly" of the coal trade; but in 1738 Parliament thought it necessary again to legislate for this purpose, and to give the City of London power to fix the price of coal—still the object was not answered. The coal-owners tried, of course, to obtain a remunerating price for their article, and the consumers complained of their having, as they termed it, a monopoly. About the year 1800 the coal trade was placed in great jeopardy, and the coalowners were in danger of being sent to prison. Mr. Clayton, the town clerk of Now-ceastle, father of the present town clerk, showed the Legislature that no monopoly, in the offensive sense of the word, existed—that the coalowners of Northumberland and Durham had no monopoly but what consisted in supplying the best article of the kind at the lowest remunerating price. (Applause.) In 1829, there was another Parliamentary inquiry, the greatest of all the inquiries to which the coal trade had given rise. It was courted by the coalowners of Northumberland and Durham had no m

rotal rows.

In 1800 it amounted to ... 2,381,986 ... 138,089 ... 2,529,075

In 1825 to ... 3,309,386 ... 138,089 ... 2,529,075

In 1825 to ... 3,309,386 ... 178,544 ... 3,487,530

In 1849 to ... 5,510,055 ... 1,862,551 ... 7,472,609

There had thus been an increase, since 1800, of 3,228,062 tons upon the coastwise shipments, or 185 per cent.; of 1,724,462 tons upon the foreign shipments, or 966 per cent.; and of 4,952,554 tons upon the total shipments, or 196 per cent. This was an immense extension of our foreign trade; and if an equalisation of duties could be obtained in France, placing the English coalowner upon a level with the Belgian (loud cheers), the trade with the continent would be still more extended. Mr. Matthew Forster, the Member for Berwick, had been indefatigable in his efforts to promote this desirable object. He had seen Lord Palmerston, Lord Normanby, and the French Minister upon the subject; and a condident expectation was entervained that the measure would ultimately be carried. The chairman had alluded to the depressed state of the trade; he (Mr. Taylor) had not seen it in so bad a condition for many a day. For the last few years it had kept getting worse and worse. It depended, however, upon themselves whether this downward progress should go on, or the trade should proaper. If a dictator were appointed, with full power to act, he might change the whole aspect of the trade in a fortnight. Instead of the money flowing out of their pockets, it would gradually flow in. He said gradually, not rapidly—and so much the better. Trusting to see the day when prosperity would dawn upon the trade once more, he cordially thanked his friends for their kindness.

Mr. Liddle in referring to the speech of Mr. Taylor, said, that though the

change the whole aspect of the trade in a fortaight. Instead of the money flowing out of their pockets, it would gradually flow in. He said gradually, not rapidly—and so much the better. Trusting to see the day when prosperity would dawn upon the trade once more, he cordially thanked his friends for their kindness.

Mr. Liddens. In referring to the speech of Mr. Taylor, said, that though the coallowners had been charged with monopoly from the earliest periods, yet in those days the trade was at least profitable to those engaged in it. It was not so now, even though a number of burdensome imposts had been removed, and an increase of sales to the amount of 196 per cent. had taken place. He attributed the depression so much complained of to the want of a better spirit and mearer agreement among the coalowners; if this existed, the trade would, in his CMr. Liddell's) opinion, quickly revive from its present deplorable condition. On the subject of collisty explosions, Mr. Bell. (the chairman) took occasion to state that, in Northumberland and Durham every precaution was taken to guard against accidents; and, looking at the extent of underground workings, he was surprised that more did not occur. He had no objection to the Inspection of Mines' Bill, provided competent and judicious inspectors were appointed; but expressed his conviction that the Members of the Legislature would find themselves in a better atmosphere at the bottom of a Durham and Northumberland coal-jut than in the present House of Commons, and 'in not much inferior company!" [There is no accounting for tastes. Coming from a coalowner, the compliment may seem a very natural one, and the Majesty's Commons are left to digest it as they best may.]

We quote the following remarks on this feetive gathering from the Nascostle Guardison, which having a direct bearing upon the question between the coalowners in the greater difficulty in bringing the coal trade toon mind, from the dissimilarity of their circumstances and interests. No two collieries are alike—

promoted by a system injustice, and which is alike hostile to an enlightened public opinion and to the general weal.

"As we have already intimated, the public have a deep interest in this question; and we are much mistaken if the power which prevented the price of corn and cattle from being adventitiously increased for the benefit of a class, will permit the coalowners to fix arbitrarily the price of coal. The thing is quite out of date; what the coalowners must look to is, not a restricted vend, but an augmented demand. And on this branch of the subject the facts and figures adduced by Mr. Hugh Taylor are most encouraging. The trade is increasing, and will continue to increase—aye, seen in spite of the infatuation of many most deeply interested in its prosperity; and if only we could get the differential duties now levied in France abolished, and the iniquitous City tax either extirpated or applied to the building of quays (so as to save the expense of lighterage), then the coal trade would rise from its distress and depression, capital, enterprise, and skill would be rewarded, labour would be more abundant and better remunerated, and the whole of these northern counties, in all their mighty and varied interests, would enjoy once again a high state of prosperity."

A report made to the Legislature of Holland states the successful progress of the works for laying dry the Haarlem Meer. The advances made amount to 666,0001, and a further sum of 160,0001, is to be raised, of which the expenditure of 100,0001, can be spread over several years. It is expected the whole undertaking will be completed in 1854.

CHEAP GAS.

On Wednesday, the second half-yearly meeting of the shareholders in the Great Central Gas Consumers' Company was held at the London Tavers. Up-wards of 400 shareholders were present.—Thomas Dakis, Esq., the chairman

On Wednesday, the second half-yearly meeting of the shareholders in the Great Central Gas Consumers' Company was held at the London Tavers. Upwards of 400 shareholders were present.—Thomas Dakis, Esq., the chairman of the company presided.

The Chairman expressed his regret that he had been unavoidably absent from the extraordinary general meeting held a short time since. When that meeting took place, he was in Ireland, in his capacity of deputy governor of the Irish Society, upon a visit of inspection of their estates in the sister country. That meeting had been held at the instance of the directors to obtain authority to borrow money upon mortgage, if it should become necessary. The meeting had manifested their confidence in the discretion of the directors adapted that expedient as a measure of precaution only; they felt it was a sound principle of action, when only applied to the conduct of individuals or companies, that they cought not to borrow money if, by increased activity, they could obtain from their own legitimate resources the money required. The directors had acted upon that principle. They had made an appeal to their shareholders, which had been met by a prompt response, and they had abstaned from exercising their borrowing powers. (Chera.) He was happy to say the report the directors would present was of the most satisfactory description. The company had been stigmatised as a paper company, and it had been beldly prophesied by their enemies that a foot of gas would never be supplied, and that a single pipe never would be laid. (Laughter.) These false prophets had failed in their predictions, and the fond hopes of the gas monopolists had been destroyed by the triumphant success of the new company. (Loud cheers.) The present history and the fature prospects of the company might be read by their opponents in the magnitude of the works at Bow, in the enormous quantity of mains and pipes laid throughout the City, in the number of gas consumers who have airready received, and the number of gas consumer

in substitution for that which would otherwise have been produced in the most crowded part of the most crowded city in the world.—The SECRETARY then read the report, which was as follows:—

You are called together, under the provisions of the company "Deed of Settlement, to the second half-yearly specting of the company. The two extraordinary general meetings, so lately held, under special circumstances, at which full reports were made on the state of the company a flairs, and progress of the works, render it unnecessary to go into a lengthened detail in our present report, which may be properly limited to the presentation of the following reports from the different officers of the company—viz., the engineers, the surveyors, and the auditors. The ordinary channels of public information will have acquainted the slareholders with the many sources of persevering opposition with which the company has had to contend, but which has hitherto totally failed in its main object. The reports, which had been given at length in the daily journals, of the legal proceedings instituted by the Chartered Gas Company, will have informed the shareholders bow little they have to apprehend from this source; but as at present there is a negotiation for settlement going on, at the suggestion of the Lord Chancellor, the directors do not deem it expedient, pending the issue, to further advert to the subject.

In addition to the statement in the engineers's report, the directors have the satisfaction to state that although in Mr. Burl's, the secretary of the Chartered Company, and davit used in the last proceedings, the total number of consumers in the City is sworn to by him at 5500, which, however, your directors cannot think a correct statement, we have the satisfaction to inform you that up to this time 4660 services have been laid out oyur mains, that 280 meters have been fixed to consumers requiring new ones, and that more than 15,000 lights are now burning on the premises of the various customers, nearly the whole of which are mos

and they have the satisfaction of stating, that the principle they had adopted for paying a moderate salary, and making the larger emoliument dependent on the success of the company, has been acceded to by the officers appointed, showing their confidence in its ultimate results, and securing their zealous co-operation in the conduct of the business.

Mr. Hall moved the adoption of the report.

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Mr. Hall moved the adoption of the report any allowance provided for the directors.—The Chairman said, that was a question entirely for the consideration of the shareholders.

Mr. Charles Pearson proposed a remuneration of 500l a year from the commencement, until they should, at the price of 4s. per thousand feet, pay the dividend of 10 per cent. out of the profits. After which he would propose an allowance of 1000l per annum, with a further addition of 500l per annum upon their paying 10 per cent. dividend, after reducing the charge to 3s. 4d. per thousand feet, which he was confident would be effected within two years from that day. (Great cheering.)

Resolutions to that effect were passed unanimously.

Mr. George Virtue was appointed one of the auditors.

Mr. Chall, the engineer, said, when they commenced the manufacture of gas, they instructed various gas-fitters to undertake the fixing up of meters at the prices stated, which the company considered liberal. All these gas-fitters were employed to the time of this meeting. They might have been in possession of a larger quantity of gas, and a much larger quantity of gas-fitters, but it was not thought requisite, as they only possessed one-half of the retorts; the other half had not yet come forward, the disappointment arising from the founders in the country. Still, the retorts they now possessed would have enabled them to manufacture one-third more gas than they were at present distributing. Supposing they had taken the amount of consumption as equal to the manufacture now existing, one forward, the disappointment arising fro

BRITISH ELECTRIC TELEGRAPH COMPANY.—The first ordinary meeting of this company, for extending telegraphic communication on economical public principles, and for which an Act of Parliament was granted last session, was held on Monday at the offices, Lincoln's-inn-fields, when, after the appointment of directors, and settlement of the register of shareholders, the meeting was adjourned until next month, for certain negotiations to be completed.

LAMORNA STONE QUARRIES.—Mr. Freeman is working a stone at these quarries, intended for the Great Exhibition in London; it is 20 feet in length, and weighs upwards of 20 tons.

PROFESSOR TENNANT'S LECTURES ON MINERALOGY— SILICIOUS MINERALS CONTINUED.—No. IV.

Prof. TENNANT commenced his lecture on Wednesday, at King's College, by remarking that at his last lecture it would be remembered he had treated of quartz in a crystalline state, and had shown that the addition of some metallic

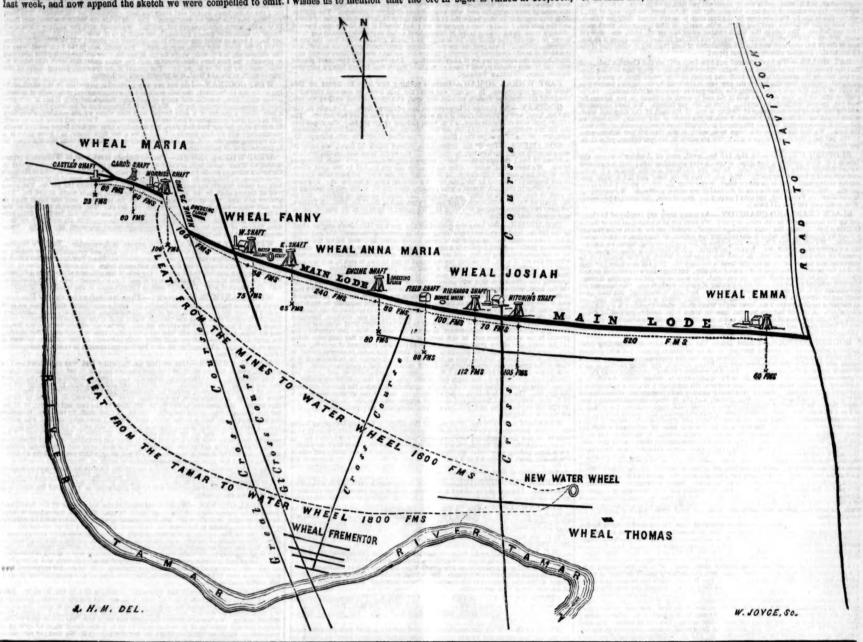
quarts in a crystalline state, and had shown that the addition of some matallic coxide produced in rock crystal the different that which transformed it into amethyst, caregorm, and other stones. Wherever silica was obtained pure he quarts, it formed that beautiful white substance called rock crystal, an admirable specimen of which he held in his hand. But if there chanced to be difficult drough the quarts from 1 to 3 per cent of the oxide of mangement of the control of the control

EAST OF SCOTLAND MALLEABLE IRON COMPANY.—This unfortunate undertaking is now in the course of being wound up, at a great less to the original promoters. It will be recollected that shortly after its constitution an attempt was made to effect an amalgamation with the Forth Iron Company for the works, for which it was modestly proposed that this company should pay a premium of 100,000. To carry through the project and swamp the legitimate shareholders, large purchases of stock were made in the names of various parties, but the thing caught wind and became abortive. Out of these transactions several intricate and curious legal questions have arisen, and Mr. Sheriff Skene, of Glasgow, has just pronounced judgment in an action involving a most important principle raised at the instance of the Forth Iron Company against their late manager in Glasgow, Mr. Woodrow, for a sum of upwards of 4000., a balance alleged to be owing by him, but the payment whereof he resisted, on the ground that the sum in dispute had been applied under the direction of his constituents in the purchase of East of Sociland Malleable Iron stock, for the purpose of bringing about the amalgamation siluded to. The learned sheriff has sustained the defence so set up, and assolizied Mr. Woodrow from the conclusions of the action; and should his judgment be well founded, which, from the strong and convincing reasons set forth in his note we see no roof to doubt, the shareholders of the Malleable Iron Company, it is believed, will be snabled to recover from the Forth Iron Company the heavy arrears of calls due upon the stock so purchased, which will materially increase the residue for division among the unlucky shareholders.

THE DEVONSHIRE GREAT CONSOLIDATED COPPER MINES.

SKETCH OF THE PRINCIPAL WORKS-September, 1850.

We gave Mr. Murchison's very elaborate article on these mines | We need not say anything more in explanation; but Mr. Murchison | instead of 300,000%, as stated, which would yield a further profit at week, and now append the sketch we were compelled to omit. | wishes us to mention that the ore in sight is valued at 400,000%, of at least 200,000%.



ON THE FORM OF RAILWAY AXLES.

ON THE FORM OF RAILWAY AXLES.

In the Mining Journal of the 10th August, we noticed a communication on this subject, which was submitted by Mr. Thomas Thorneycroft, of the Shrubbery Iron. Works, Wolverhampton, to the Institution of Mechanical Engineers, Birmingham. At a meeting of members, held last week, a supplemental paper was read, in which the wirter argued that the girder of a bridge and a revolving axle were somewhat allike in principle, and yet in the shape of the axles at present adopted the form of the girder had been departed from; the girders being parallel, the axlest apered. He contended also that the simple and only cause of fractures taking place behind the wheel arises from the shoulder. Axles reduced in the middle are unable to keep their form when any derangement of a train takes place, and the damage to the train is greatly enhanced. This view of a train takes place, and the damage to the train is greatly enhanced. This view of the case was supported by Mr. Bowman, and Mr. Thorneycroft, sen., and opposed by Mr. Shake. Peacock, Mr. Ramabettom, Mr. Cowper, Mr. Henson, and others.

Mr. State remarked that the analogy sought to be established between the girder of a bridge and a railway axle did not exist; they were opposed to different forces, and the character of the fracture was totally different. Thus, girders invariably broke in the middle, and axles at the ends. Mr. Thorney-croft was, therefore, seeking to strengthen axles where strength was not wanted, a logical as well as a mechanical mistake. He thought that this was opposed to all philosephy and all facts.

Mr. Peacock remarked, that in addition to Mr. Slate's reasons for the parallel form of a girder; it must be remembered that the one was cast, the other wrought-iron. Taper a cast-iron girder like an axle, and you destroyed it from unequal contraction, before it left the workshop.—Mr Thoustextonorr was proceeding to contend that the tapered form of an axle when subject to percussion was habited to band, and the motion being continued

just inside the opposite wheel; hence the necessity for increasing the strength of this part, rather than of adding weight of metal to the centre, where it is not wanted.—Mr. McConnell recommended Mr. Thorneycroft to make further experiments on this subject, observing that the weight of the axles should be the same in the parallel and tapered forms, not that a parallel axle should be reduced, and then tested against an axle some 35 lbs. heavier. It would be well also, if the blow should be given to the wheel instead of to the journal, where in reality it never fell.—Mr. Thorneycroft expressed his willingness to make these experiments, and communicate them to the next meeting. His only object was to arrive at the truth, and probably the suggestions of the chairman would enable him to throw some additional light upon an important subject.

feb Batents.

SPECIFICATIONS ENROLLED DURING THE PAST WEEK.

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H. RITCHE, of Brixton, Surrey: For improvements in the manufacture of copper, brass, and other tubes, or pipes. These improvements consist principally in the employment of oscillating grooved rollers, for elongating or drawing out tubes or pipes formed of copper or brass. Both upper and lower rollers are made to revolve at the same surface speed, and the grooves formed in them are of a gradually increasing size from a certain point. At their smallest part, the grooves form an aperture of the diameter of the finished size of the intended pipe. The casting from which the pipe is to be drawn or rolled is produced, in the first instance, of a tapering form, and the taper end is introduced into the wider part of the grooves. The rollers are then put in motion, so as to produce part of a revolution in one direction; the motion is then reversed. The pipe under process of formation is at each successive half revolution advanced between the rollers, until the whole length has been reduced to the intended size. By means of these oscillating rollers, pipes increasing in thickness from the ends towards the middle, or having thickened parts upon them, may be formed. —Clasins: 1. The mode of elongating cast copper, brass, and other metal tubes or pipes, by rolling surfaces, caused to alternate in their rotation.

—2. The making tubes with seams, as above described.

W. Buckwell, of the Artificial Granite Works, Battersea, C.E., and G. Fisher, of the Taff Vale Raliway, Cardiff, C.E.: For improvements in the construction and means of applying carriage and certain other springs. The carriage springs here patented are constructed in the form of ellipses, thickened at the ends (either by additional metal at these points, or by affixing two or more plates), and fixed so as to bear loads applied at right angles to their transverse diameter, or in direction of the tension of the metal. According to this system springs, one-tenth the weight of those constructed as at present in the form of a segmental pilable beam, will bear an equal load or loads in cwts. equal to the square of their weight in bs. In actual practice, the patentees, however, prefer to allow one-half only of this weight. Thus, a load of 10 tons net will be safely supported by four springs, each 10 lbs. weight, which would have required springs of 400 lbs. weight, when constructed by the ordinary method. The dimensions given for such springs are—conjugate diameter, is in: transverse diameter. It in.; width of plate, 2 in.; triskenses. 3.16th sof an inch. Double this thickness will be required if the load be any are—conjugate diameter, 18 in.: transverse diameter. 11 in.; width of plate, 2 in.; thickness, 3.-létius of an inch. Double this thickness will be required if the load be applied at the side of the elliptical spring, which would then require to be thickened instead of the ends, as in the former case. Springs of this construction are also applied at traction and shunting springs; one central buffer only being used, and the springs connected by a draw-bar, slotted at each end, to allow of its coming borne against the spring at either end.—Claims: The construction and application of springs, as described.

E. PAOTHEROE, Austinfriars, London, merchant: For improvements in the manufacture of oxide of sine, and in making paints from oxide of sine. The improvements above referred to and ciaimed in the specification, are as follows:—1. and 2. An arrangement of apparatus, consisting of a reverboratory furnace, in which the sine is melted, and two retorts, in communication with each other, into which the metal flows; so that a constant clean surface of melted sine is kept submitted to the action of currents of atmospheric air, the heavier portions of the oxide thus produced being raked out of the retoris, and falling into a chamber underneath, thence to be removed either in a box on whoels into which they fall, or by means of shovelling; the lighter portions passing up a shaft, and being thence driven by a current of steam to the condensing chambers, in which the vapour passes through a series of frames on which the oxide is deposited, the air passing off through suitable chimneys. By tilting these frames, the oxide falls to the bottom of the chambers, and may be removed by any of the means ordinarily in use. These chambers are kept coal by means of water playing on their exteriors.—3 bleaching the light oxide by means of water acidulated with sulphuric or acetic acid.—4. Grinding and compressing of the oxide of zine, by means of a suitable mill. This mill consists of a conical roller revolving in a circular trough. This relier is placed on its side, with its narrowest diameter at the circumforence of the trough. Underneath the trough is a chamber, into which the oxide falls after being ground.—5. The manufacture of oxide of zine or paints, by combining the same with certain specified materials, in order to scillated its drying. The patentee employs umber, which is first dissolved in muriatic acid over a fire, and then concentrated to the consistence of the range of the oxide of the paints, by combining the same with certain specified materials, in order to scillate its drying.

substance thus formed the patentee calls resinate of umber. This resinate, when mixed with the exide of zinc, forms a quickly-drying paint. Instead of the resinate of umber, umber in its native state may be used, but not so advantageously. Another preparation to be employed in combination with the exide is composed of one part umber, treated as as above, two parts chalk or carbonate of lime, and four parts resin from the yellow pine. In addition to these, the patentee proposes another mixture, which he terms resinate of lead white; exide of lead dissolved in acctic acid, being substituted for umber, and prepared in a similar manner.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

DESIGNS FOR ARTICLES OF UTILITY REGISTERED.

F. B. Geither, Birmingham, expanding dining table.

W. Ponpard, Wych. streef, Sirand, curvilinear beam for weighing machines.

E. O. Tindall, and L. Tindall, Soarborough, York, Tindall's smoke elevator.

Key, Mitchell, and Fries, Newgate-streef, convertable bedstead.

E. Greaves, Sheffield, brass founder, variable pendulum, or portable metronome.

Bryan, Donkin, and Co., Grange-road, Bermondsey, rotary rag boiler for paper-makers.

W. F. Robinson, Lieut. R.N., Junior United Service Club, self-acting safety plug, cr stopper for boats and other vessels.

R. Watts, Manchester, metallic packing for pistons.

J. Harvey, Westminster Bridge-road, the Richmond car.

C. Maschwitz, Jun., Birmingham, box or case for postage stamps.

Dushoit and J. Road, Finshury-parement, the bush tent.

T. Parker, Kensington, knife and fork cleaner.

C. Rowley, Newhall-street, Birmingham, the Prince's vest button.

J. Smith and H. W. Ditchett, of the firm of Smith and Co., St. Augustine's-parade, sristol, blind roller.—Mechanics' Magazine.

J. Smith and H. W. Ditchett, of the firm of Smith and Co., St. Augustine's-parade, Bristol, blind roller.— Mechanics' Magazine.

The Imperial Alkali and Salt Company.—His Honour, Master Tinney, has just made his report to the Court of Chancery on the affairs of this company, from which it appears that the association was started in 1836 for manufacturing and selling salt and soap, the produce of certain salt and alkali works at Stokewitch, near Worcester. The capital was 75,000%, in 6000 shares, of 122. 10a. each, with power to borrow 50,000% more. The directors were Messrs. R. and J. Morrell, of Oxford, who were also the company's bankers; H. Morell, of London. A deposit of 51, per share was paid on the share capital, and operations were commenced under the managing direction of Mr. R. Parker: the company at first mahufacturing and selling large quantities of salt, vitriol, and soda. Shortly after a call of 22, per share was made and paid, and on a second call of 22, being required a few monts after, Parker, who was suddenly superseded in the management, cautioned the shareholders not to pay any more money until they had ascertained the liabilities. The Messrs. Morell then assumed the entire control of the undertaking, and conducted it, as is alleged, "in the most unauthorised manner." Robert Morell, since dead, it is asserted applied the funds without check or control, employed builders and surveyors, and caused buildings to be erected for the manufacture of soap which were unnecessary. Applications were constantly made to the Messrs. Morell for a statement of accounts, but none were rendered, though on one occasion Mr. R. Morell informed the shareholders that all the money subscribed, 27,500%, had been expended; that the bankers (Messrs. Morell's) account was overdrawn by 20,000%; that the other debts and liabilities amounted to 8000%, and that the company's patent "for manufacturing soap out of finit" had proved an entire failure. At length, in 1840, the directors issued a statement of accounts showing the



TITES OF LOSS SHOULD CONTINUE RAILWAY AND COMMERCIAL GAZETTE

THE MINING JOURNAL,

Mining Correspondence.

BRITISH MINES.

ALFRED CONSOLS.—We have just commenced driving north in the 80, but of Field's engine-shaft, and find, so far as is driven, the lode principally caples; in the course of the present week six of the shaftmen will commence about the plunger lift in the 76 fm. level. The lode in the winzo sinking under the 76 fm. level, east of the engine-shaft, is 6 ft. wide, and is worth about 40l, per fathom—this winze is No. 1. We have this day commenced sinking a winze under the 70 fm. level, 14 fms. east of No. 1 winze—this is No. 2; the lode here for the first start is worth about 100l, per fathom. The lode in the vinge sinking under the 60 fm. level, west of Wyld shaft, is from 4 to 5 ft. wide, worth for copper ore 60l, per fathom; this winze is 10 fms. east of the 70 fm. level end, and has the appearance of soon reaching in value that of the 70 fm. level. No other change since last report.

Of m. level. No other change since last report.

BAT HOLES.—We have cleared out the deep add: on the Cornish lode, and and the present and to be driven into shale. There has been a great deal of work done a the lode by the ancients both in back and bottom of this level; there is also a commination opened from this lode to the new vein in this level, by driving on a branch that split off from the new vein, leaving the other part to the west of this branch. In the allow add, on the new vein, the lode in the end is worth at present 94, per fathom for ad ore, ground moderate for driving, price 42. 10s, per fathom. We have suspended hing the winze in consequence of finding a rise in the back of the deep addit level, hich is put up 10 fms., being about 8 fms. to the south of the winze; therefore, we outly it more prudent to stope the ground south, and there form a communication with the back. We find the lode in this stope to be worth at this time 20! per fathom, price 10. 3s. or fathom.

er fathom.

BEDPORD UNITED.—In the 115 fm. level, east of Andrew's winze, the de is 3 ft. wide, producing fine stones of ore—a very promising lode; in this level west e are driving by the side of the lode. In the 103 fm. level east the lode is 4 ft. wide, and will yield 8 tons of ore per fm. The lode in the 90 fm. level east the lode is 4 ft. wide, proucing saving work; and in Aracout's winze, in this level, the lode is worth 5 tons of ore pr fm. We are driving by the side of the lode in the 80 fm. level east. We weighed at lowellham, on Friday last, 190 tons 7 cwts. 2 qm. August ores, and sampled September res, computed 190 tons (2) ewts.).

start weimann, on Fricay last, 120 tons 7 cwts. 2 qrs. August ores, and sampled September ores, compacted 120 tons (21 cwts.).

BLACK CRAIG AND CRAIGTON.—As many men are employed in clearing up the bottom level as can work to profit. We have put in a large quantity of timber o form a level through the large roomings formerly worked out for ore, in order to make place for depositing the rubbish and escuring the bottom of the mine, which is much rushed. We are stoping 3 ft. from the bottom of the south rooming, where we are raising a quantity of excellent ore. We are also driving a drift through a pillar of good orey round to the west side of this, to meet the main level, which by this means will be nortened and made secure as the old level is crushed fin. The old men have had such said in the bottom as we have never seen above adit; but they have worked more ground bout the foot of Welsh shaft than we expected. As soon as we get an opening through the drift referred to, we can then set a number of men to work on ore. We have not yet of cleared up to the winze, or sump, where the best ore is standing. Six men have sen put on tribute in Armstrong's sump (under adit), which is about 30 fms. east, and the same random as the 7 fm. level out of Welsh shaft, where Crawford is a good mixtre of ore. A tribute bargain has also been set in the 7 fm. level to the east of Crawford. We have 31 tons of ore dressed, and a quantity more ready to dress from the bottom of Welsh shaft, and more still to draw from the stoup and drift referred to. The trist Clogston's shaft continues much the same.

BODMIN CONSOLS.—I have taken the opportunity of inspecting your

ture of ore. A tribute bargain has also been set in the 7 fm. level to the east of Crawford. We have 37 tons of ore drawsed, and a quantity more ready to dress from the botom of Welsh shaft, and more still to draw from the stoup and drift referred to. The trist of Clogston's shaft continues must be same.

BODMIN CONSOLS.—I have taken the opportunity of inspecting your property previous to the present meeting, so as to be able to present you with a report of its latest prospects. I am happy to inform you that the previous reports made on this mine, and printed in the prospectus and the Mining Journal, are being verified in each advance made in the executions. The first position I visited, accompanied by Capts. Vercee and Hooper, was the serth, or Pye's, adit; this is driven under the hill in a mortherly direction about 69 fms., and stopes to the extent of 3 or 6 fms. in length are executed in the bottom. This we have been enabled to do in consequence of the advance of the 18 fm. level below towards this ground, and the drainage effected thereby; this stope, though only 7 or 8 ft. in depth, shows a considerable improvement; the lode in it is 3 to 4 ft wide, composed of decomposed quartz and gossan, and stained with the sulphate and arseniates of lead, and traversed by branches of galena—one branch of which averages about 1 is in. wide. The fair value of this adit may be calculated to turn out nearly half a ton of ore per fm. for an extent of about 50 fms., equal to about 64. or 7. per fm. The second position of the workings is the southern, or Hext's, adit; this level, is driven on the same lode, south of the engine-shaft, and is extended about 45 fathoms through a very promising lode for the last fws fathoms; a winze as sunk near the end of the level to connect it with the 13 fm. level approaching towards this point; this winze is sunk? fms. through a large gossan lode, containing several branches of galena. Some part of the endies of the mine, it may be necessary to re-state that it is traversed by a layer oggr

would at once be in sight.

BRYN-ARIAN.—The lode in the 20 fm. level, west of the engine-shaft, is 5 ft. wide, with a mixture of ore throughout, although coarse in quality—we are saving the whole for dressing. The lode in the 16 fm. level west is 4 ft. wide, with but little ore at present—not any to set value on; the stope in the back of this level is much as last a present—not any to set value on; the stope in the back of this level is much as last reported, yielding about 25 cwts. of ore per fm. The solid level driving west is become disordered and poor within the last three days; the stopes in the back over this level are objected, and the men are now putting in a pentiouse, and will commence sinking on Thursday. The quantity of ore we have at surface is about 12 tons, from 4 to 5 tons of which is clean. We have engaged a vessel to earry the last sale of ore to Linselly.

CARTHEW CONSOLS.—The sumpmen have completed fixing bearers and isstern, with sinking lift in the 25, and have sunk the engine-shaft below it 2 or 3 fms., wherein the ground is good—they have not yet taken down any lode. We have a very good lode in the north end in the 75, it is about 24 ft. wide—this a very great improvement from last report; in the south end, in this level, the lode (though not as rich as in the last noticed end) looks very well, it is about 3ft. wide. The lode in the south end, in the 55 fathom level, has been somewhat disordered this week, but I doubt not, from present prospects, that ere another week closs, we shall arrive at a point where it will be found quite as productive as it has been heretofore. We have commenced operations a the saft level south, with the intention of clearing it to the southermost point, to mable us to drive to intersect the east and west lode, which has not yet been seen more han 9 ft. below surface, to do which the adit level has to be driven about 17 fms. The ribute department is without material change, looking very well.

CRADDOCK MOOR.—Since I last reported we have extended the 20 fm-resi

DEVON AND COURTENAY CONSOLS.—The sumpmen are progressing rell in driving the cross-course in the 69 fm. level, and I expect to cut the south lode in an ecourse of a few days. During the last week we have taken down the lode in the 60 rest, which produced some ,good ore. The lode in the winze has not been taken down in a surface of the large mundic lode), in decomposed elvan, clay, and gossan. Since my last report we have opened on one of the central lodes, on the west side of the Tary; it is room 21 to 3 ft. wide, a large portion of which is in tolerable good dredge work.

EAST CROWNDALE.—The lode in the middle shaft is producing good stones of tin. In the 40 fathom level east the lode is large and well-defined, but not rich The iribute department is much as usual.

SHARP TOR.—The lode in Hitchina's shaft is still very hard, but the same highly promising character as alluded to in former reports; there are ms of the north wall being reached as yet. The water is a little increased ast, and we are now engaged in creeting a small balance-bob, which I hope upleted by this day week. EAST SHARP TOR-

since my last, and we are now engaged in cructing a small balance-bob, which I hope will be completed by this day week.

EAST TAMAR CONSOLS.—In the 70 fm. level, north of Furzehill shaft, an improvement has taken place in the lode; it is now 18 in. wide, composed of can, fluor-spar, and very good stones of ore, altogether presenting much more promising appearances than for some months past. In the north end, in the 60 fm. level, the lode is 3½ fl. wide, composed of can and ore, to the extent of 8 cwts. per fathom; this level has been extended 3 fms. 2 ft. 6 in. during the past month, and left very good tribute ground. In the 21 fm level, south of Caroline's shaft, a considerable and favourable change has taken place in the lode; it is better defined, more upright and firmer, carrying a leader that will yield 6 cwts. of good ore per fathom, and there is no doubt but we are getting into a better run of ore ground. The 26 fathom level, north of Church-lane shaft, is driving towards its last-mentioned end on the coorse of a fine strong lode, 4 ft. wide, yith but little underlay, and worth 13 cwts. of ore per fathom, and likely to improve. Gullett's engine-shaft is cut down to a proper size, and divided, 13 fms. 1 ft. under the 25 fm. lerel, below the deep adit; we propose to continue it until we reach the next level, which, frem report, is 3 fms. deeper. Church-lane shaft has been cut down in some parts, and otherwise altered and repaired, and stands and pullies have been erected from charlottes shaft to it, so as to draw all the work from this part of the mine by the steam whim-engine at Furzehill; the distance is 933 fms., and is a knistactory to be able to state that it works perfectly well, and does the duty of 3ts horses daily, thus effecting a considerable saving, and greatly facilitating the underground operations. The tribute department is much increased, 16 pitches being set on Friday last to 52 men, at an average tribute of 10s. 9d. in the 11 ft. for lead, the highest teeting its, and the lovest 9s. 6d. A

EAST WHEAL GEORGE.—The lode in the 12 fm. level, east of the engine-shaft, is about 4 feet wide, mixed with copper ore, spar, and peach, carrying two very regular walls, and from the appearance of the end I think it is not far distant from a bunch of ore: in the 17 fathom lavel west the lode is from \$\frac{2}{2}\$ ft. to \$\frac{2}{2}\$ th. wide, with ore throughout, with a leader of copper ore near the north wall, 7 or 8 in. wide, worth from 10. to 12. per fm.; the country about the lode is a beautiful light killar, wherein such a large lode like this seldom fails in making large quantities of ore. The lode stoping west in the bottom of the adit, and 5 fms. below, is 24 feet wide, worth from 121, to 15. per fm. I understand from the agents that a rise would shortly be commenced from the level below, which will facilitate the working of the atopes above; I have no doubt of the online at once paying its cost, with every chance of better discoveries. The engine-shaft is in course of shinking below the 12 fm. level to the 24, by nine men; when down, and the lode cut, I shall expect a course of ore; but should it not be the case, I would strongly recommend sinking to the self fathom level to face a possible; should any more power be required, the water can be brought to a much greater height than the top of the present wheel. I was glad to see the dressing department getting on so well, and the carts so busily employed in carrying the ore for market; also the floors so well supplied, beside the coming ore for the next sampling. I begt to say, that sam much pleased with the present prospects, and I have no doubt of East Wheal George being a very productive mine,—WILLIAM VERBAN.

EAST WHEAL JOSIAH.—There is nothing new here to report on this week of any importance. In the adit end south the lode holds its size and character, composed principally of flookan, mundic, and say, with spots of lead andgeopper ore. GOGINAN.—No change of importance has occurred here. The lode in the 120 fm. level, on Taylor's lode in the 120 fm EAST WHEAL GEORGE.—The lode in the 12 fm, level, east of the en-

m. level, on Taylor's lode, is small and poor. In the Dack of the 17 ml. level, on Laylor's, we have two pitches, working at 12s. in 14. We expect to have 20 to 30 tons of ore for sale against next meeting.

HOLMBUSH.—We have completed all the work in Hitchins's engine-shaft in the 190 fm. level, preparatory to sinking, such as removing two small lifts and fixing a large one instead, cutting a plat for cietern, bearer holes. &c., and fixing the same, removing penthouse, and patting in a new one, taking up all the water, so as to enable us to commence sinking to-day, and we hope to sink several fathoms below this level without the aid of a lift. On setting day we intend to put 12 men to sink it, asit is a large slaft (13 feet by 8 feet), and at present a hard one—price 464, per lathom. You may depend on me pushing it on as feet as possible to communicate to the 132 fm. level, well knowing the advantages that will accure after its accomplishment. The lode in the 132 fm. level, west of the great cross-course, is 2 ft. wide, and it will produce full 3 tons of copper ore per fathoms of good quality; the lode in the stopes in the back of this level, east of the point of horse, is split in two parts going up, as might naturally be expected, from what is seen borse, is split in two parts going up, as might naturally be expected, from what is seen borse, but it is not so valuable as if the lode was compact, because it will cover more money to slope it. The ground in the 132 fathom level cross-cut south, and account more money to slope it. The ground in the 132 fathom level cross-cut at out, first market is seen borse, but it is not so valuable as if the lode was compact, because it will cover more money to slope it. The ground in the 132 fathom level cross-cut south, and atoms of copper ore. The ground in the rise above this level, to communicated to the 190 fm. level, east of the great cross-course, is 15 in. wide, composed of mundic, spar, and stomes of copper ore. The ground in the rise above this level, to communica

revelys not so promotive as it was, but still producing some very good copper ore. Our copper ore is weighed.

KESWICK.—The 10 fm. level rise, at Brandley, is looking better, as is also the stope in this place. The tribute pitch is rather poor at present. At 01d Brandley the viein in the new level continues very promising, with spots of ore, but still broken up. At Thornthwaite, the 17 fm. forehead is not looking so well; the No. 1 stope is a little poorer; No. 3 stope looking very well. We are close upon the junction of the string and vein in the bottom level, and about 2 or 3 fms. from the run of ore which we sunk upon in the 17 fm. level, on vein. That part of the vein we have seen is looking very well for ore; the bottom level stope is yielding good ore.

KIRKCUDBRIGHTSHIRE.—The lode in Stewart's shaft is 3 ft. wide, with spots of ore. The lode in the 62 end is 3 ft. wide, with a good branch of ore coming in on the north side. The lode in engine-shaft is 5 ft. wide, yielding is cwts. of lead to a fm. LLWYNMALEES.—The 14 fm. level improves daily, and will shortly be in the shoot of ore from the western winze. The plat at the bottom of London shaft will be completed next week, and we shall then proceed to drive the 24 fm. level cast and west from it. The 8 fathom. level west continues poor; the stopes over this level, from 1 to 17 fms. west of western winze, are more productive; but the stopes over the 8 fm. level, from 5 to 11 fms. west of western winze, are more productive.

OLD POLDEERO.—An improvement is reported in the copper lode, where,

OLD POLBERRO.—An improvement is reported in the copper lode, where, in the 27 fm. level, the lode has, in 6 ft. driving, increased in width from 18 in, to 30 in, and the end will now produce from 3 to 4 tons of ore per fm. The 46 fm. level is being driven to come under this ore ground. The pitches on the ting ground are also looking better, so that the prospects of the concern are more cheering. It is at present working at a loss of about 2000, per month.

PETER TAVY AND MARY TAVY CONSOLS.—The sumpmen are get ting on very well in stoping down the engine-shaft below the 32 fm. level; the lode i occasionally producing very pretty stones of good quality ere. The whole of the ma chilinery is working well.

SNOWDON.—With the conclusion of the month, I send you the cost sheet for the last four weeks, and have to advise that the copper ore lately raised on tribute has teen dressed equal to 8 per cent. in produce, and forwarded to Carnarvon for shipment, being upwards of 30 tons. The only tutwork now on hand is the driving of the level to drain the Green Luke, and I await instructions as to the terms of the setting to the tributers for the next month.

being upwards of 30 tons. The only tutwork now on hand is the driving of the level to drain the Green Luke, and I await Instructions as to the terms of the setting to the tributers for the next month.

SOUTH TAMAR CONSOLS.—I beg to hand you the following report of the operations of the past month, and on the present state of the mine:—At the engine-shaft the bottom lift has been changed and fixed in the 112 fm. level, and the shaft sunk 1 fm. 2 ft.; it is now 4 fms. 2 ft. under the 112; the lode in it is \$1 ft. wide, carrying good branches of lead that will yield 12 cwts. per fm.; the ground is congenial for ore, and moderately easy for sinking. The 112 fathem level has been extended north 4 fms. 1 ft.; the lode in the old is \$\frac{1}{2}\$ ft. wide, with a very slight underlay, and composed of fluor-spar and prian, intermixed with fine-grained lead to the extent of \$5\$ cwts. per fm. and is in an improving state; the same level south has been driven 5 fms. 2 ft. 6 in.; the lode in this end is 4 ft. wide, composed of fluor and horn-spar, and on an average has produced 6 cwts. of ore per fm. The 100 fm. level north has been ctriven 5 fms. 2 ft. 6 in.; the lode in the end is 4 ft. wide, cworth 4 cwts. of good ore per fm., and from present appearances it will in all probability improve; the same level south has been driven 7 fms. 3 ft.; the lode in the end is 4 ft. wide, cworth 4 cwts. of good ore per fm. and from present appearances it will in all probability improve; the same level south has been driven 7 fms. 3 ft.; the lode in the end is 4 ft. wide, cworth 4 cwts. of good ore per fm. and from present appearances it will in all probability improve; the same level south has been driven 7 fms. 3 ft.; the lode in the end is 3 ft. wide, if c. die, if it spisding good work; it continues to be easy for driving, and to open profitable tribute ground. The 90 fm. level, north of Glynn's shaft, has been extended 8 fms. 8 ft. by the saide of the lode; the men are now set to cross cut through the lode; the south end, in this

manng for ore. Fne south lode, in the 42 west, is 18 in. wide, yielding I ton of ore per fin.

TRELAWNY.—At Phillip's shaft, in the 62 end north, the lode is 15 inches
wide, worth 61. per fin. Part of the shaftmen have resumed sinking Trelawny shaft, and
the others are employed with the pitman, preparing to fix the lift in the 92. In the 92
north the lode is 34 ft. wide, worth 40. per fin. : in the same level split the lode is 34 ft. wide, worth 101. per fin. In the 82 north the lode is 34 ft. wide, worth 94. per fin. ; in the
winze in the bottom of this level the lode is 34 ft. wide, worth 84. per fin. In the 72 fin.

morth the lode is \$\frac{3}{2}\$ ft. wide, worth 101, per fms.; In the same level south the lode is \$\frac{3}{2}\$ ft. wide, worth 102, per fms. In the 82 north the lode is \$\frac{3}{2}\$ ft. wide, worth 102, per fms. In the 72 fm. level north the lode is \$\frac{3}{2}\$ ft. wide, worth \$\frac{6}{2}\$ per fms. In the 72 fm. level north the lode is \$\frac{3}{2}\$ ft. wide, worth \$\frac{6}{2}\$ per fms. In the 72 fm. level north the lode is \$\frac{1}{3}\$ ft. wide, worth \$\frac{6}{2}\$ per fms. In the 72 fm. level north the lode is \$\frac{1}{2}\$ ft. wide, worth \$\frac{6}{2}\$ per fms. In the 72 fm. level north the lode is \$\frac{1}{2}\$ ft. wide, worth \$\frac{6}{2}\$ per fms. In the south end, at this level, the lode is \$\frac{1}{2}\$ ft. wide, worth \$\frac{1}{2}\$ per fms. In the south end, at this level, the lode is \$\frac{1}{2}\$ ft. wide, worth \$\frac{1}{2}\$ per fms. We have resumed driving the 40, north of Smith's shaft, where the lode is \$\frac{1}{2}\$ ft. wide, worth \$\frac{1}{2}\$ per fms. The following is an account of our setting:—Christoe Lode: The 100 fm. level, west of Garden's shaft, explored if fm. 5 ft., price \$\frac{1}{2}\$ ft. wide, worth 124. per fms. In the 50 fms. level, west of \$\frac{1}{2}\$ ft. wide, worth 124. per fms. In the 50 fms. level, west of \$\frac{1}{2}\$ ft. wide, worth 124. per fms. In \$\frac{1}{2}\$ ft. per fms. The \$\frac{1}{2}\$ ft. pe

WELLINGTON.—The lode in the 50 fm. level, east and west of engineshaft, is without change since my last report. The lode in the 42 fm. level, west of said shaft, is b in. wide, principally spar; the lode in the 43 fm. level, east of Parcolly shaft, is at present split in three parts, each part containing a small quantity of copper ore, and has the appearance of Joining each other soon, at which point I expect an improvement. The lode in the western additived is 9 in. wide, and has a very promising appearance, producing some copper ore. The driving of this level has for the last two months been poor; but I am glast to say there is an improving appearance, but now. The lode in the add leval, east of the western whim shaft, is 14 in. wide, worth for copper ore 3.5, pet 1m. The lote in the 10 fm. level, east of said shaft, is 1s in. wide, worth for copper ore 4.5, pet 1m.; the 10 fm. level, west of said shaft, has been suspended for the month. The men are rising over this level for ventilation. The lode in the rise has for the month appearance, but the complex over the level of the ventilation. The lode in the rise has for the month of the 45 fm. level, west of the engine-shaft. The north lode in the 7 fm. level, west of the engine-shaft. The north lode in the 7 fm. level, west of the engine-shaft. The north lode in the 7 fm. level, west of the engine-shaft. The north lode in the 7 fm. level, west of the start present; the men have commenced to sink the wince under this level, had been at present; the men have commenced to sink the wince under this level, was to the engine-shaft, in the adit level, is at present; the men have commenced to sink the wince under this level, had been a fine guider the 15 fm. level; the lode is about 5 ft. wide, composed principally of gossan, mixed with killas, mundie, and spots of lead ore; though not rich, it has a very promising appearance for that depth. We have had information of discovery being made on a lode about a quarter of a mile further west than where we are working, where

lode running near the spot, and should we discover anything of value, you shall soon be in possession of all particulars.

WEST WHEAL JEWEL.—The 70 fathom level, west of Williams's cross-course, on Wheal Jewel lode, is worth 61, per fm. We have not taken down the lode in Carkeek's winze in the 70 fm. level in the past week. The 52 fm. level, west of Hodges's cross-course, on Tolcarne tin lode, is worth 301, per fm., ditto, west of ditto cross-course, lode not taken down in the past week.—whea last reported, worth 151, per fm. The winze west of Quarry shaft, in the 30 fm. level, on the same lode, is worth 41, per fm. Tho shallow add it level, west of Trogoning's shaft, on the same lode, lode not taken down in the past week.—wheal last reported, worth 101, per fm. The stopes in the back of the 12 fm. level, west of Trogoning's shaft, on the same lode, are worth 437, per fm.; ditto, bottom of the same level, east of Tregoning's shaft, on the same lode, are worth 371, per fm.; ditto, bottom of same level, west of Trogoning's shaft, on the same lode, are worth 371, per fm. Thestopes are working on tribute.

WEST WHEAL TOWAN.—The report is favourable. Taylor's engineer.

stopes are working on tribute.

WEST WHEAL TOWAN.—The report is favourable. Taylor's engineshaft has been cleared to the bottom, 20 fms. under adit, and preparations are making to
drive on the Middleworks lode, and to cross-cut to Wheal Towan. Caroline's shaft is
sanking in a fine killas between the north and south lodes, with several branches of rich
tin passing from one lode to the other. The lode in the adit, east of cavern, is 4 ft. wide,
with good stones of ore. The end west of Wheal Tye, on Taylor's lode, is wery promising,
with good stones of ore. The south lode at Vivian's shaft is also mentioned favourably.

with good stones of ore. The south lode at Vivian's shaft is also mentioned favourably.

WHEAL ARTHUR (CALSTOCK).—There is a shaft called the Old Hundred which we must begin to clear immediately, and erect a small horse-whim, when we shall be able to clear the mine to the west of the old workings, without any more machinery. The Old Hundred shaft is the one through which most of the ore has been drawn; when this is clear, I hope we shall be able to set some pitches on tribute, both on the copper and the lodes, and this work will take but a very short time to complete. After clearing the level to the engine-shaft we shall drive north and south on the lead lode, as well as west on the copper lodes, so that we shall have several chances to raise ore, independent of the tribute ground.

west on the copper lodes, so that we shall have several chances to raise ore, independent of the irribute ground.

WHEAL CREBOR.—Our setting on Saturday last was as follows:—The adit end, west of Rutdle shaft, by two men and two boys, at 5l. per fm., stented 3 fms.—lode improving. The cross-cut in the adit to stope towards Rundle shaft, by three men and one boy, at 13s. per fathom. The 40 end, west of Rundle shaft, by fur men and two boys, at 4l. 13s, per fathom, stented for the month, and lode locking well. A rise in the back of the 40, at Rundle shaft, by four men and two boys, at 4l. 13s, per fathom, stented for the control of the shaft, by one man and one boy, at 3l. 3s. per fm., stented 2 fms., or cut the lode. The 24, at Cock shaft, by two men; it appears the main part of the lode is to the north, which, when I have ascertained, I will advise you. I have put a pare of men to secure and clear the adit wost of Relly twards kundle shaft; four men to clear up the shaft sunk by Mr. Hitchins in Beauford's line; it appears by the gossan from this lode, the lode is large and promising—the like appearance is shown where it is cut in our costeaning. The men have mot with several parallel lodes, which will be shown in the plans we are proparing, which you shall have a copy of Intend to put the men to costean some distance north of Rundle shaft to-morrow, to accertain what parallel lodes are within a convenient distance for opening at a depth by a cross-cut. The pare is dressing ore for another sampling, what quantity it will be I am not at present in a position to state. The engine, pitwork, &c., are in good working order; the stamps are at work, and will be for some time, as I have let the halvans as 4 the sum of the present in a position to state. The engine, pitwork, &c., are in good working the stamps are at work, and will be for some time, as I have let the halvans as the second of the control of the samp are at work, and will be for some time, as I have let the halvans as

14s. in 17., for two months.

WHEAL GENNYS.—We have intersected the lode in the 22 fm. level, and driven on its course south 10 fms., and north 12 fms. The lode inroughout is large, varying in width from 2 to 6 or 7 feet, and producing south of the cross-cut nearly a ton of lead per fm.; north of the cross-cut, for several fms., about 4 fm of ore per fm., and for the last few fms. a quantity of gossan, thickly impregnated with white or carbonate of lead. The underlie of the lode is on an average about 1 ft. per fm.; it is in a beautiful soft killas, and very congenial for lead. We have commenced sinking the shaft, and expect to see the lode in the 22 fm. level by the ond of January next. We have already several tons of lead at surface, and shall commence our dressing-floors at once to prepare it for market. From what we have already discovered, it is our decided opinion that we shall have a good and profitable mine.—[The particulars of the accounts were given in last week's Journal.]

WHEAL HARPIS.—It the service of the secounts were given in

last week's Journal.]

WHEAL HARRIS.—In the cross-cut south, in the 25 fm. level, we have discovered a large lode, from 5 to 6 ft. wide, in an east and western direction, underlying north 6 ft. in a fm., composed principally of flookan and spar; south of which the ground is a little harder for driving, and also pretty much water issuing out, and it appears to be still increasing. We have discovered the north and south lode, but cannot give you the correct size and underlay of ft, as it appears to be in a disordered state, or split up in branches, on which we intend sticking a few feet also to prove it. We have not yet reached the lode we are driving to cut, and from which the stones of artimony and lead were broken at a few feet below the surface.

WHEAL PENHALLE.—Since my last report no lode has been taken down

The lode we are driving to clut, and 170m which the stones of a rimney and lead we're broken at a few feet below the surface.

WHEAL PENHALE.—Since my last report no lode has been taken down in the north end, in the 40 fm. level; but, in the south end, in this level, since meeting with the great improvement in the ground, we have found the lode slee squally improved; it is about 3 ft. wide, composed of a soft white spar, and a little mundle, besides yielding a much greater quantity of lead and copper than it has herefofore, which leads me to suppose we are in near approach of good ore ground in this level. I have put the men from the north end, in the 30 fm. level, to stope the back of the same, to do which they are to have 304, per fathom, with 11. 5s. per ton for lead, and 2s. 6d. out of 11. for copper—from this point is naticipate we shall be getting a considerable amount of ore. The lode in the south end, in the 10 fm. level, continues to show well; it is about 1 if ft. wide, with a branch of lead and copper on the east side of it about 3 in. wide. Operations have also since my last been commenced at the south shaft for the purpose of communicating it with the adit level, to do which we have to sink about 3 fms., and likewise to extend the adit end from 3 to 3 fms. south; this being done, we shall be in a very good position to do a great deal of work under easy circumstances in this part of the mine. The tribute generally is without much change, with the exception of Langdon's pitch in the back of the 30 fm. level, which is much improved.

WHEAL VINCENT.—The lode in the east end is about 9 in. wide, pro-

the 30 fm. level, which is much improved.

WHEAL VINCENT.—The lode in the east end is about 9 in. wide, producing stones of copper ore and mundic, but not rich for tin; we are stoping the back of this end, and raising some tin. The lode in the end is small at present, and very regular, with easy ground by the side of it. We shall go to market with the tin on the lat of November—it is about 1 ton 5 cwts.

FOREIGN MINES. LINARES MINES.—The following has been received from Mr. H. Thomas:

LINARES MINES.—The following has been received from Mr. H. Thomas:

Linares, Oct. 19.—I have availed myself of the opportunity afforded by the farther drainage of La Manca winze, under the 45, to see the lode therein, at about 4 fms. under the 1evol, and about this winze. I am glad to report to you, that there is a large piece of lode standing west, for about 5 fms. long, of excellent quality; for this distance there is a level driven west, but as there was about 5 fn. of water in R; it was not in our power to examine it minutely. Our pitman and another man have, however, succeeded in reaching the ends, and report a good course of lead thagein, of a foot big. At the spot we were able to examine it, fit was 18 in. wide, and worth 6 tons to a fathorn. The lode in the bottom of the 45 being very good over this level, we may safely calculate on having made a considerable addition to our reserve of available ore. The water has prevented further—or indeed any—examination castward of La Manca. The workings are considerable, and consequently the procress of forking is slow: I trust that it will be in my power, in another week, to let you know definitely when we may be able to give you full report on the mine under the 45, saw we may expect by that time to have seen the level between La Manca and San Pablo, and ascertained what arrangement is necessary to get the water out of the sink in the said level. The men have also been employed in clearing the level and putting in launders for conveying the water from Las Nieves farther east, where I hope, by Monday, we shall also be draining the water by barrels. From the want of powder, the men who were sinking San Antonio winze have been prevented working therein during the past week; and we have employed them to put in the penthouse, &co., at the 45, in Wilson's shaft. Shaw's shaft, its not yet communicated to the 45, but this may be daily expected. It is down under the 31 fm. level 22 varsa 10 inches. San Juan continues without change, and is now under the 31 fm. level 22 va

ROYAL SANTIAGO MINING COMPANY:—

Cobre, Sept. 16.—Persessrancia.—We have made an effort to develope Thompson's she to the 20 fm. level, in order to fix the staking lift, but without success; we find it impatible to keep the water and stuff with the mule whim. The lode is from 7 to 8 ft. with 3 ft. of which is eaving work, yielding 5 tons of ore per fm: the remainder is composed of arsentical pyrites and peach, interspersed with particles of yellow copper. As soon

S ma, west from tendamins shart, and whit he reported in minic shoet the head of Perseverancia."
Foreitside.—The intended engine and whim-shaft is cut down to the depth of 2 fins. from surface; the stratum is favourable; it is let to some native miners, at \$10 a yard, for 13 fins. In depth.

Recurse.—The lode in the stopes east from Goldsmid's shaft, in the back and bottom of the 14 fm. level, is from 3 to 4 ft. wide, yielding 5 tons of ore per fm. During the past week we let a winse, to develope between the 26 and 35 fm. levels, or cross-cat adit. The lode is from 3 to 4 ft. wide, composed of tile and superior yellow copper ore, yielding 4 tons of ore per fm.; the matrix and strata are compact, and do not require to be fortified. The lode in the winse developing below Castro's adit, or 33 fms. from surface, is without alteration since last reported. West from cross-cut, in Castro's adit, the lode is also without alteration.

EAST WHEAL LEISURE IMNING COMPANY.

At a meeting of adventurers, held at the mine on the 23d inst., a report was presented, by which it appeared that the operations of the present adventurers were commenced at the end of June last, since which date the old adit levels, which are very extensive, have been cleared and secured, and a steam-engine of 38-inch cylinder erected, and set to work on the morning of the meeting. The whole expense of these works, up to this time (including the purchase of the engine and other machinery), amounts to less than 1000ℓ. The monthly cost of working will be very moderate, to provide for which a call of 1ℓ, per share is to be made immediately, and a further call of 1ℓ when required. The object of the adventurers is to try, on the eastern side of a great cross-course, the lodes formerly worked in the Old Wheal Leisure and Great St. George Mines. The indications seen in the adit level are very encouraging.

HEINGSTON DOWN CONSOLS MINING COMPANY.

HEINGSTON DOWN CONSOLS MINING COMPANY.

The two-monthly meeting of adventurers was held at the offices on Wednesday, when the accounts were presented, showing—Balance from last account, 546.5s. 10d.; received for calls, 7207.2s. 6d.; loan, 1001.; ores sold, 603f. 15s. 7d.; ==1478l. 3s. 11d.—Mine cost for July, August, and September (including repayment of loan, 1002.), dues to the duchy of Cornwall, &c., 1045l. 18s. 2d.—leaving balance in hand, 432l. 10s. 9d. The statement of assets and liabilities showed a balance of receipts over payments, before next meeting, of 37l. 8s. 3d. The following report, from the agent, was read to the meeting; — 0ct. 29.—The 45 fm. level is now extended about 19 fms. east of Victor's winze, of 9 fms. 1 ft. 2 in since the last meeting, the lode in which, since then, for the greater part of the drivage, has been on an average 3 ft. wide, and occasionally passing through small bunches of 'good quality ore; in the present and, however, although the lode maintains its size, and in every way is equally encouraging in its character, yet it does not for the time contain much ore; but, from the superior gossan for about 9 in. in which office north part of and adjoining the caples, both of which are impregnated with yellow ore and the blue carboanted of copper, with the other part of the lode to the south also carrying wiltide ore, considently expect in our progress castward that an improvement will take place shortly, more especially as such proved to be the case in the level above (the 30), under similar circumstances. Doddgo's whise is now communicated with the 45 fathom level, in the sinking of which we have extrict with us a kindly lode, producing good saving work nearly all the way. Saturday last being our survey day, I set this winze to stak below the 45, but desmed it advisably to the content of the hole of the south lode, from the 10d available to commence it 3 fms. to the west of the former, at which point we passed through a variety for the hole of work nearly all time way. The co

MINERAL COURT MINING COMPANY.

MINERAL COURT MINING COMPANY.

A meeting was held at the mine, St. Stephen's, on Tuesday, the 23d October when the purser produced the accounts of the mine for the last three months, which were audited, and a call of 4l. per share made, to meet the loss incurred, which was, in a great measure, caused by the erection of machinery, and the necessary apparatus for dressing the tin. The prospects of the mine, particularly in the bottom level, appeared to be very good. Satisfactory reports, from Captain Evans, the experienced manager of Budnick, Friendly, and other tin mines, who had the same day inspected the mine, and of Capt. Dale, agent of the mine were read, and, with the entire approval of the adventurers present, were ordered to be carried into effect.

SOUTH WHEAL TRELAWNY MINING COMPANY.

SOUTH WHEAL TRELAWNY MINING COMPANY.

At a general meeting of shareholders, held at the offices, Birchin-laue, on the 24th Oct. Charles Chippinolale, Esq., in the chair,
After the usual preliminaries, the accounts were submitted, showing—Balance against mine on 27th June, 1511. 7s. 1d.; to June cost, 1861. 1s. 1d.; July ditto, 821. 16s. 4d.; August ditto, 771. 17s. 10d.; September ditto, 731. 8s. 1d. =5211. 10s. 5d.—By call of 40s. per share, made 27th Junelast, 4001. leaving balance against mine, 1211. 10s. 5d. This balance of 1211. 10s. 5d. is in addition to 1431. 10s. 5d., apable, but not yet due, to sundry parties for their proportion of materials, &c., in respect of 56 shares resigned. Unless the calls in arrear be paid within three weeks, the shareholders owing the same are to be legally proceeded against.

It was resolved that the lode be proved at the 60 fm. level by continuing the cross-cut to the lode, that the shaft be sunk 20 fms., as recommended by Capt. Seccombe, and that the operations be confined to the above, also that a contract be made for sinking the shaft the first 10 fms. immediately. Looking at the present circumstances of the company, and for saving of expense, it was deemed expedient that the services of Capt. Lean and Capt. Jenkins be dispensed with after the end of November, and that the management of the mine be placed under such person and regulations as Messra. Charles Chippendale, George Mackay, William Chippendale, and Thomas Hackett, may deem proper. A call of 50s. per share was made.

The following report, from Capt. William Lean, was read:—
Oct. 23.—The folde in the 50 fm. level, north of the cross-cent, is 1 ft. wide, composed of gar, mundel, 600km, and spring of lead; this end is clear of the elide, and to the north of the cross-cent, is 1 ft. wide, composed of gar, mundel, 600km, and spring of lead; this end is clear of the elide, and to the north of the cross-cent, is 1 ft. wide, composed of gar, mundel, 600km, and spring of lead; this end is clear of the elide.

Oct. 23.—The tode in the 50 fm. level, north of the cross-cut, is 1 ft. wide, composed of ar, mundle, flockan, and sprigs of lead; this end is clear of the slide, and to the north it: but the tode in the 65 fm. level is under, and in the midst of it; consequently, the de is in a disordered state, and no doubt it will be, until it is clear from it, when we may be to the control of the control o lode is in a disordered state, and no doubt it will be, until it is clear from it, when we may reasonably expect it will present a much more favourable appearance than it has lithered done. The ground in the 60 fm. level cross-out, east of the engine-shaft, is a beautiful dark blue killas (or clay state) stratum, a faccimite of fit estrata in Mary Ann Mine, while mine I carefully surveyed on Monday last, by the kind permission of Capt. Peter Clymo who afforded me every facility for so doing; and at no time have I seen the mine so prosons, especially in the 40. 50, and 60 fm. levels, south of the engine-shaft, which are't. perous, especially in the 40.50, and 60 fm. levels, south of the engine-shaft, which are to within (on an average) 250 fms. of our north boundary, and the direction of the lode is 250 west of south, which, if it continues, will bring the lode about 5 fms, east of our engine-shaft. Some doubts have been entertained whether we have a cortinuation of one and the same lode as Mary Ann, or not, but I am perfectly satisfied we have; but one thing is evident, we must go deeper to meet with a productive lode, as the lead is dipping southerly. The lode to the north of us has been laid open 700 fms. In length; and had the mines been consolidated, it would be a second East Wheal Rose; and if it fails entirely in South Trelawmy, it will be a wonder in mining. The ground in the shaft could be suck for 10, per fm. The engine is in perfect order, and the water moderate.

The subjoined report, from Capt. Seccombe, who had been specially requested to inspect the mine, was also read:—

to inspect the mine, was also read:—

Oct. 22.—I find the adit level has been driven south from the valley (or north boundary of the set!) about 110 fathoms, on a lode composed of barytes, gossan, and killas, varying from 6 in, to 23 ft. wide, the average bearing of which is about 27° west of south: and, from all fean see of the character and bearing of this lode, I believe it to be the same as is now being worked on in Wheal Mary Ann Mine, adjoining. In the 30 fm level, below the adjt, a cross-cut has been driven west, and intersected a lode, which I believe to be the same as the adit was driven on; it is similar in character, and contains spots of lead ore; the extent driven or the lode from north to south is about 35 fins., but there is no indication at present of any improvement in either of the seds, and I cannot recommend the driving to be resumed. The strata in this level appears to be in a very disordered and broken state, occasioned by a slide, and a large quantity of clean. In sinking the engine-shaft from the 30 to the 50 fm. level, there are some branches passing through the shaft.

dipping from west to east, one of which branches is intersected in a plat cut on the assistrated of the shaft, in the 40 fm. level, and from which a large stream of water is issuing, and has drained the workings in the 30 fm, level over. In the 50 fm, level a cross-cut has been driven east shoult 14 fm; a 5 fm. from the abart a small lodgor branch has been intersected, which appears to be very much disordered by a slide running nearly parallel with the cross-cut, and dipping north. A level has been driven south on the branch intersected, which appears to be very much disordered by a slide running nearly parallel with the cross-cut, and dipping north. A level has been driven south on the branch has to be a should be a superior and the shaft been 10 fm. below, i should have recommended a time extension south on its course a but I find, at the depth of 60 fms, a cross-cut is now being driven east, towards this lode or branch; and, according to its dip, when soon in the 50 fm. level, there is about 3 fms. more to drive east to intersect it. My opinion is, that there will be an improvement when intersected in the 60 cross-cut, as the strial appears to be in a more acticled and compact state than has been met with in the upper levels. It is my capilion that you have the same lode which is found so productive in Wheal Mary Ann and Trelawny Mines; only, in your soft, it is split in branches, occasioned by the disordered state of the ground; and I would recommend you to lose no time in sinking your present engine-shaft at least 50 fms. deeper. I have comes to this conclusion, esclosing that a great change in the strata has taken place in the latter of the solution and even you will dud the lode productive.

RUNNAFORD COOMBE MINING COMPANY.

RUNNAFORD COOMBE MINING COMPANY.

A meeting of shareholders was held yesterday at the Black Eagle, Woolwich, to receive the report of Mesers. Morris and Lea on the financial accounts of the company since its formation. At a meeting held on the 30th Sept., it had been resolved that Mesers. Morris and Lea should be appointed auditors, and in that capacity examine the accounts of the company; at the same meeting, a call of 5s. per share was made. At the meeting yesterday, the report of Mesers. Morris and Lea, with the annexed statement, was approved and received. By the statement in question, it appeared that the amount received on calls has been 38942. 6s.; sale of tin, 12594, 8s. 7d. = 51532. 4s. 7d.—Working cost, &c., 60504. 19s.; dues paid, 88f. 19s. 1d.; leaving balance in banker's hands, 18f. 16s. 6d.—It was further shown that, after the payment of all liabilities, the amount due to the company, and in favour of the mine, would be 546f. 2s. 8d.—Thanks were voted to Mesers. Morris and Lea for their careful investigation of the accounts.—The following report, from Capt. Hooper, which was deemed very satisfactory, was read to the meeting:—

Oct. 29.—In presenting you my report, I beg to say in the 10 fm. level we have driven fms. 2 ft. on the course of the lode, which is about 2 ft. wide, composed of spar, capel, peach, and tin, and is underlaying about 4 ft. in a fm.; the men have for driving 7t. 10s. per fm., extent 3 fms. 1 think in about a fortulgit more we shall hole the winze, there being about 8 or 10 ft. to drive to get under it; but, if possible, I will get a boyer hole through the latter end of the week. I would recomment you to drive waxward in the 10 fm. level, for in cutting through the lode continues as we have had light the heads contox that fine stone of tin in the adit level, and where such a good bunch of this is gone down from the adit level. I think if he lode continues as we have had light the heads forthinght, that, with 16 men (including the ends and back), we can return from 6 to 8 tons

WEST NANT-Y-MWYN MINING COMPANY.

WEST NANT-Y-MWYN MINING COMPANY.

At a meeting of adventurers, held at Truro, on the 9th October,—Mr. J. T. TREGELLAS in the chair,—it was resolved that the undertaking should be divided into 1020 shares, and be carried on on the Cost-book System.—Capts. Matthew Francis and Robert Tyack were appointed mining managers, and Mr. H. Ellery, secretary, all protem.—A call of 1s. per share was made, and the expenses of a deputation to the mines, 26l. 5s. were charged to the mine.—The report made by Capt. Francis on the mine, was read to the meeting, from which we extract the following:—

On the western side of this river (Towey), the grant of West Nant-y-mwyn commences; 1 pad considerable attention to the configuration and composition of the ground, so as to be able to argue from analogy as to the probability of a continuation of the Nant-y-mwyn lodes into this grant, and as to the chances of the produce being of similar quantities. I find that the form of the ground is expressly analogous; and I have no doubt the conformation of the surface depends upon the same subterranean causes. In the first place, the great strength of the cornect lode has prevailed against the agency that has degraded the surrounding ground for centuries; and this immense vein presents a creat-like form, extending out of the surrounding landscape, and surging eastward and westward at right angles with the river for a considerable distance. In the second place, the soft lodes to the northward have given way to the action of the elements, and formed a valley parallel with the great ridge formed by the elevation of the cornet lode; and what is a singular corroboration of the argument of analogy is, that large works of lead ore have been found to the year and the second place, the soft lodes, and from the presence of these boulders of lead ore on the line of the lodes that produces so much ore at Nant-y-mwyn, I conclude that similar formations will be found when the lodes are fairly exposed in West Nant-y-mwyn grant. I would also add, in further co

WHEAL VINCENT MINING COMPANY.

WHEAL VINCENT MINING COMPANY.

At a meeting of adventurers, held at the offices, on the 26th Oct., Mr. Murray went into lengthened details on his recent visit to the mine, and its prospects; the result being, that at a cost of about 70l, per month the mine may be fully developed, by means of a new shaft, to be sunk in proximity to the present engine-shaft, and at 20 fathoms in depth to work on the course of the lode, where there is the most promising lode yet discovered in the sett; and Mr. Murray is of opinion it will prove a 'rich lode, and make good and profitable returns of ore. It was unanimously agreed that the said shaft be commenced immediately, under Mr. Murray's instructions to Capt. Reynolds; and from the nature of the ground, down to the 10 fathoms, it was anticipated that the cost would not exceed 50l or 60l. to that depth, nor the time to reach the lode more than three months. About 1½ ton of the tim was on the mine, and ready for sale.—A call of 10s, per share was made: and, in reference to shares now in arrear of calls, it was resolved that unless they be paid on the 11th Nov. they then become forfeited.

GALVANISED IRON COMPANY.

GALVANISED IRON COMPANY.

At the fifth half-yearly general meeting of shareholders, held on Friday, the 25th Oct., at the London Tavern, under the provisions of the "Dissolution Act," obtained in 1848, a series of resolutions were agreed to, having reference to the transfer of the contract concluded with Mr. Field, purchaser of the company's interest in the patent, &c., to Mr. C. W. Tupper and G. B. Carr, which transfer was accepted and confirmed by the meeting. It was also resolved that the outstanding liabilities of the company, with the arrears of calls still due, should be referred to a committee of shareholders, to report on the most expedient course to be pursued, either at the next general meeting, or one specially convened. Messrs. Bell, Hall, Grueber, Kelly, Page, and Dipnell, were named for the committee. The report of the directors went at much length into the circumstances in which the company is placed, and stated that considerable progress had been made in the task assigned them since the last meeting. Previous surrenders of leases had been effected, compositions in respect to unpaid calls agreed to, and other steps taken, with a view to a satisfactory arrangement of the company's affairs. The suit pending with Mr. Malins also forms a prominent feature in the report, which received the full approbation of the meeting.

Company of Copper Miners in England.—A meeting of the Court of

COMPANY OF COPPER MINERS IN ENGLAND.—A meeting of the Court of Assistants will be held on Wednesday next, in order to determine the course to be pursued in the present crisis of affairs. Most probably a general meeting of the shareholders will shortly be called, as the principal securities will fall due on the 6th inst. Active measures are about to be adopted by the Shareholders' Committee, appointed in April, 1849, in order to reconcile the different interests. Any measures brought forward, independently, must militate against the general benefit; and though grounded on justice, at the same time they are injudicious, and will prove prejudicial to the best interests of the company.

and will prove prejudicial to the best interests of the company.

CAMBORNE CONSOLS.—So few shareholders assembled at the adjourned meeting on Thursday, that it was deemed advisable that another adjournment should take place, to some day appointed by the board of directors, although the votes represented by proxies and otherwise were stated to be 786 out of 1000. Meanwhile, the best means by which further capital may be raised, and beneficially applied, it was stated, will be considered. The accounts were shown, but will not be published until formally passed by a general meeting; it may, however, be briefly stated it would appear by them, that from the lat of May, 1848, to the lat of October last, a sum of 28721. 5a has been expended in the working of the mine; while, calculating the value of mine setts, buildings, &c., at cost price, exclusive of the outlay for working the mine, the excess of assets over liabilities was estimated at 35131. 18s. 8d.

NORTH WHEAL ROBERT.—We are authorised to state that the gentler in London connected with this adventure fully believed that the sett adjo-East Wheal George; but, on inquiry, they find there are a few hundred father

THE ANGLO-CALIFORNIAN GOLD BURBLE

THE ANGLO-CALIFORNIAN GOLD BUBBLE.

Sire,—That the concoctors of this precious piece of humbug are most consummate wags, as well as knaves, there can be no doubt, when we Anglicise the name selected for their imaginary El Dorado—"Santa Vaga"—meaning noither more no less than "Saint Vague," or "VagaBoND!" Vague enough—there's bubble in the very name. Again, the dupes are told to look to the "Mariposa." Take care, good people, for Mariposa means "butterfly," and butterflies have but brief existence. Mariposa also means "untilight"—oc, rather, a small floating light—a very faint light, but quite sufficient to burn your fingers. Are they not wags then? and are they not knaves also? Is it not proved by the exaggerated and fallacious statements put forward in the first place, and by the way in which the unwary and simple country people were invelged into the concern by promises of 70 per cent. certain in this present October? It was only within the last two months that I discovered that a relative of mine, in one of the provincial towns, had been so duped. The oaly comfort I could give him was, that he might think himself well off if he were not eventually called upon for more money.

But, Sir, under what authority did the directors call for 10s. per share? Not, surely, under that of the Joint-Stock Companies' Act; for there it is expressly stated that the deposit is not to exceed 10s. for every 100t. subscribed.

Now, the prospectus of the "Anglo-Californian Gold Mining and Dredging Company, provisionally registered pursuant to the 7th and 8th Vic.," sets forth that the capital is to be 50,000t, in 100,000 shares of 10s. each, the whole to be paid on allotment, which (whatever others may think) I believe the Registrar of Joint-stock Companies will tell you is illegal, the power before completa registration being restricted to the 10s. per cent., as above stated. Were it not so, what would be the use of all the covenants, as to calls, &c., required in the Deed of Settlement? I and what protection would the Act of Par

states that the guarantee against all further hability is to be given by whether company—that is, the shareholders are to guarantee themselves.

P. ASTURIAN MINING COMPANY.

Sir,—I have waited patiently to see whether or not the ex-directors of this company would emerge from the dignified allence which succeeded their "emphetic denial" of the statements of the thrid interim report of the Committee of Investigation, to point out the errors or univerpresentations of that preliminary accusation. I hoped to sustain the interest of the discussion by allowing one "on the other side" to speak out, in order that too much of the same publishmen might not pall the appetite of your readers; but my hope have been vain. Discretion, says the proverb, is the better part of valour, and delinquency is a complete desirable than the general issue to deal with, I must take up the plea of not guilty which has been recorded; and if you can afford me space, without prejudice to your more interesting matter (though the present subject is not without its instruction to the uninitiated in the mysteries of scheming). I think I may pledge myself to prove the affirmative of all the charges we have ventured to broach, and that by day and date, and documentary evidence, which must satisfy the most incredulous that the prosent proceedings of purchasers, are meant solly to cover their encomous responsibilities of the company, in concert with the proposed purchasers, are meant solly to cover their encomous responsibilities of the company in concert with the proposed purchasers, are meant solly to cover their encomous responsibilities and the proceedings of the original directors and promoters of this company, and concert with the proposed purchasers, are meant solly to cover their encomous responsibilities and the proceedings of the company in concert with the proposed purchasers, are alled a series of charges, an indictinent, &c., and truly the matter of it gives much colour for thus describing it. Not a closer consideration will, I think, jus

ON THE GRANITE OF EXMOOR.

ON THE GRANITE OF EXMOOR.

Sirk—Having been from home for the last fortnight, surveying mines and quarries in Devon and Cornwall, I had not an opportunity of perusing your valuable Journal until my return, when I was very much amused to see Mr. Moore's remarks. They put me in mind of the horse I rode on my journey; where the saddle fitted so tight as to gall his back, and when I alighted to relieve him, he attempted to kick me. And in reply, I again reiterate what I have so often stated, that I am no enemy to legitimate mining; let every man bringing out mines, or reporting on them, act fairly to the best of his judgment, and time will test it; but when men go so far as to state untruths, or to seen, I think it is time some one should make a passing remark, to rouse the unwary shareholder. Had he stated that there was any peculiarity in the features of the mine that gave him reasonable grounds to expect a certain thing would occur at a given depth, it would have been quite a different case; I should have admired such remarks, and set the writer down as a watchful and thinking man. But when I see prospectuses, or reports, come out that I suspect and one of the minested truths, the promoter will deceive himself if he thinks, by his remarks, to intimidate me from calling public attention thereto; I have battled too long with the breeze to be frightened at the sound of every one who sets himself up for a mine on Exmoor: this report rose the wind for the time, but, fearing they should again become becalmed, some interested parties began to basir themselves, and see what mighty feats, by energy, they could accomplish; they brought out an eye with a power even beyond Lord Rosse's telescope, and discovered the granite mountain and lime deposits, so congenial to the state of Exmoor; and even, easy and revealed to us Nature's beautiful law working 10 fms. under the earth, where she is depositing her copper in the \$4 fm. level. What a discovery in the nineteenth century! Who would now refuse to engage in mining; it is no

still, a little caution is required, as they are wary fellows, and in Co. more than two, and, no doubt, have many a bal to sell. What a retaliation I must expect when they get to the riches in the 34 fm. level? So much for Exmoor. I shall next touch on another rich district in the north of Devon, pronounced by these men to be one of the mighty wonders of the world, where they had no need to make use of their strong visionary powers, as masses of ore were to be seen by any common-eyed person that passed by.

I called, and was taken for a "greenhorn." And what a tale they spun me! which ended in my offering to stake a sum of money against them, as to their raising a named quantity of ore in a given time, which brought the gall on their back to a fistula before I left, the anguish of which brought the gall on their back to a fistula before I left, the anguish of which brought the gall on their back to a fistula before I left, the anguish of which brought the gall on their back to a fistula before I left, in a given the feelings of men who are already labouring under a disease that learned dectors have pronounced incurable, and only say, in return to the remarks on my practice in mining, that it is too well known to need any comment from Mr. Moore; and I will tell him that I commenced my career in the Great St. George, when I was only 10 years of age. I never managed an antimony mine. I left an engine-shaft in the west of Cornwall to go to Treburget, to supersede a lynx-eyed man like himself, who could see the end of a rainbow, but could never reach it. I was recommended to the company (perfectly unknown to me) by the old Capts. Hitchines and H. Brenton, whom we may fairly set down for the founders of mining in the Tavistock district.

From my known practice, I was selected by Mr. Ross, in 1822, who was then manager of all the Beeralston Mines, to go out to Columbia; he came 50 miles to try to prevail on me to accept the situation. It was the first party going out to that country after they had declared their indep

THE EXMOOR MINING DISTRICT.

THE EXMOOR MINING DISTRICT.

Str.—In looking over your valuable Journal of the 19th inst., I observed the remarks by Capt. R. Moore, where he attempts to bear out Capt. Fezzy's report on the strata of Exmoor. I have had the pleasure of examining that forest, by the permission of F. Knight, Esq., for the purpose of discovering lodes, how, &c.; but could not find either traces of lime or granite on the forest, but we did certainly fall in with a few iron lodes—not one of which is favourable for copper. Elvan courses there are, which can be found in almost any district. I find that there is a bed of coarse pipe-clay; but very different from that of china-clay which is found in the granite hills of Cornwall and Devon. That on the Exmoor is a decomposed kilas; and that which is the china-clay from the hills of Cornwall and Devon is from the decomposed granite, which is not found on the Exmoor.

As regards the remarks made by Mr. R. Moore towards Mr. Ennor not being a practical miner, they show the ill-feeling of Mr. R. Moore towards Mr. Ennor, as it is well known that Mr. Ennor has been a practical miner from his youth, and has had experience equal to any miner in the kingdom; and it may be said that he is the original miner and the recent quarryman, and not the original quarryman and recent miner; and it was not until he left the mines of St. Teath that he engaged with T. R. Every, Esq., as an agent on his quarries. It is also well known in the county of Cornwall that he paid great dividends, both from the mines and quarries, by his strict observance and economy of working—a rule that should be observed in all mining speculations, where the agents intend to make dividends to their adventurers. If Capt. Fezzy will point out on what part of the forest the granite is to be found, it would greatly oblige us, as we may have overlooked it, and shall feel glad for the information.—I. C.: Rocke, Cornwall, October 30.

THE COPPER MINERS' COMPANY.

THE COPPER MINERS' COMPANY.

Str.,—I have hitherto refrained from noticing your report of the meeting of the Copper Miners' Company, of the 3d of April last (which appeared in your Journal of the 6th), because I thought it better to let the legal proceedings speak for themselves; but, as an attempt is to be made to get rid of the question apon technical grounds, supported by evidence which, in all probability, will give rise to criminal proceedings, I feel it incumbent, after the remarks made in your Journal, to put you in possession of the tree state of the case. The portion of the report I allude to is as follows:—"It was moved by Corbet Hue, Eaq., seconded by A. F. C. Lawrie, Eaq., and carried unanimously, that it is the opinion of the Court, that Mr. Lord's application for a 'mandamus,' should be opposed, and that the expenses of such opposition should be borne rateably by the whole body of the proprietors."

The meeting in question was called by advertisement in the London Gazette, for the election of elective efficers only, the usual notice by circular being dispensed with, and no notice given of the above motion, which was submitted, it having been ascertained from me that I should not be present!

The "mandamus" in question is simply calling upon the Court of Assistants to register my preference shares in "shares," and not in "stock," the Court of Assistants having, by a bye law, which was made known to a meeting of shareholders on the 11th Feb., 1848, converted "shares" into "stock," as by the following extract from the report:—"Resolved, that the old shares in this company, of whatever amount paid up, and the preference shares of 25i. each, paid up in full, and duly registered, be deemed and taken to be so much money stock of each class respectively; and that each shareholder stand in the register as possessed of so much stock as the sum paid up on his share or shares amount to, and that transfers may take place of any amount of stock whatsoever."

In order more fully to understand the meaning of this

MINE MANAGEMENT.

Sin.—As frequent differences arise between the purser and managing captain f a mine, respecting the nature and extent of their respective duties, I should led obliged by your inserting the following definition of what properly deolyes on them.

ONE INTERESTED.

The duty of a purser where the captain is manager :-

The duty of a purser where the captain is manager:—

1. The duty of a purser is more particularly confined to the financial department, which includes the paying and receiving all moneys on account of the working of the mine, having vouchers for such of the amounts as may be necessary, to be produced (if called for) at the meeting of the advanturers.

2. He should see that particulars of all the materials received for the use of the mine are entered in a book kept for that purpose, and give directions to the manager and clerk that no materials be received without a way-bill.

3. He should give orders for every article, matter, and thing, required for the adventurers and agents, on account and other business days.

4. He should be advised by the manager if any very expensive material or erection; is required, whether for the surface or underground department, and both join in such order.

5. When the ore (of whatever description) is prepared and ready for market—such information to be furnished by the manager—he should seek out purchasers and effect the sales.

6. It is his duty, after consulting the adventurers and manager, to cause to be sold such of the materials as may be thought necessary, whether spare, or at the abandonment of the mine.

MINING IN CARDIGANSHIRE.

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MINING IN CARDIGANSHIRE.

Sm.—Last week I observed in your valuable Journal a letter from "Fact," desirous of setting public opinion on a right basis respecting Cardiganshire mining; and I can only say that, actuated by the same desire, I am tempted to offer a few remarks on the mines in this county, without going into particulars as to the advantages America may have over us, but hoping it may prove beneficial to the public in general; and I shall be content, after the perusal of both statements, by parties drawing their own conclusions on the matter. To come to the point at once, "Fact." states as to Cardiganshire, the royalty being double of what it is in some parts of England, is a reason why its excellent mines (which are few) lay so long dormant. Now, I do not mean to argue for a moment that high royalties are not prejudicial to mining, but it is satisfactory to find that a more liberal spirit has already began to actuate the landed proprietors of the county; and I can, if necessary, instance several mines now let at 1-14th and 1-15th royalty, where the same land could not be had, some few years past, under 1-10th royalty. No doubt but what the parties who worked the mines enumerated by "Fact."—viz.: Cwmyatwith, Logylas, Talybont, Goginan, Gwmsymlog, Daren, Eagair Mwyn, and Frongoch—were shrewd geologists; and that they made immense profits is owell known, that they mede no comment from any one. In addition to the above, there are many others that have yielded very large profits, and with a small capital for laying open ground, and the erection of machinery, they doubtless will again. We may name Bromfloyde, Eagair-her, Bwlch Coasols, Cwm Erfin, Gelliseirin, Grogwinion, &c., and many others; but until we get the rest of the novelties promised by "Fact," I refrain, for the present, mentioning more. There has

as yet been but little attention paid to this vast mining field, but it is gratifying to find that, where capital is being judiciously expended, the mines are becoming very valuable, and a few more months will prove this to many who de not wish to believe it at present: and looking at all the mining capital expended in this county for the last 15 years (and some of it, I am serry to say, expended very injudiciously), I do not think there is much reason to complain, as at least a return of 85 per cent. per annum can be shown.

Goginan, Oct. 29.

A Well-wisher to Cardiganshire Mining.

SOUTH CARN BREA.

SIR,—A letter was published in last week's Journal, signed "Vindicator," containing statements, the tenor of which I might be well contented to pass unnoticed, if they affected myself only, but as they extend to other people, and are also calculated to mislead the minds of parties interested in the case, I think it is my duty to state publicly, that the counterpart of the sett is not lost, and that I never "offered to take a quarter part of the whole number of shares into which the mine is divided, if the holder would relinquish the present lease and take a new one, dropping some of the advantages secured by the existing instrument." The "professional gentlemen" alluded to are Messra. Smith and Roberts, of Truro. Merely to announce this, I feel is sufficient to supersede the necessity of defending them from the coarse and ridiculous remarks made upon them by "Vindicator."—E. C. Marriott: Tehidy Park, Truro, Oct. 81.

WHEAL PROVIDENCE.

WHEAL PROVIDENCE.

Sin,—In your report last week, of the proceedings of the "Lamherooe Wheal Maria Mining Company," it is stated that "the secretary was requested to inform Capt. Thomas Penaluna, of Wheal Providence, that the company would accept accession of a certain portion of land belonging to Wheal Providence, to enable them to work on the A lode." This is the first intimation the adventurers in Wheal Providence have had of such an application; and fully agreeing, as I do, with Mr. Murray, who stated at the Lamherooe meeting that "it was more probable that a lode in any way approximating to the Great Wheal Maria would be found in the north rather than the south side of the sett;" and having in Wheal Providence, among others, a gossan lode, twin sister of the Maria lode, respecting which the highest expectations are entertained, I can only say that a cession of any portion of our ground is not likely to take place. The recent discoveries in Wheal Providence in the castern ground, towards the Great Wheal Maria cross-course, which intersects our lodes, and the discovery of the great gossan lode on the southern side towards Wheal Maria, render such a circumstance still more improbable. If anything were required to enhance the value of the mine in the estimation of the shareholders, the deeply interesting statement and statistics of Mr. Murchison, in your last Journal, would unquestionably effect it. Having, in the opinion of Mr. Evan Hopkins and Mr. Symons, the most valuable mineral ground in the district, I conclude that we shall not cede any portion of it to the Lamheroee Company. Possibly there was some inaccuracy in the statement. London, Oct. 31.

THE DEVON GREAT CONSOLS—MACHINERY.

THE DEVON GREAT CONSOLS-MACHINERY.

THE DEVON GREAT CONSOLS—MACHINERY.

Sir.—In looking over your valuable Journal of last week, and having read Mr. J. H. Murchison's description of Devon Great Consolidated Copper Mines, and its machinery, we beg to correct a slight error with reference to the large water-wheel. Mr. Murchison, in describing this piece of machinery (which doubtless is well known to many of your readers, who are aware, in consequence, who the engineer was), ascribed to us its construction; and as we are not willing to carry the laurels belonging to others, we beg to put Mr. Murchison right on the subject. The engineer was Mr. Nathaniel Smith, who for many years was under Messrs. John Taylor and Sons, at the Great Wheal Friendship, but has since been appointed engineer at the Devon Great Consols. We were merely the founders, and working engineers in fitting the work, in accordance with the drawings of Mr. Smith. NICHOLLS, WILLIAMS, & Co. Bedford Iron Works, Tavismak, October 30.

PROPOSED MINING EXCHANGE.

PROPOSED MINING EXCHANGE.

Sir.,—Having read the letter in the Times on mining business, it was with great interest I awaited the publication of your Journal, and it afforded me (in com mon, no doubt, with many of your readers) great pleasure and astisfaction to see the straightforward manner in which you have urged the subject upon the brokers and agents. That a Mining Share Exchange, and also an authentic list, to issue from a committee, ought to exist, there cannot, I should think, be two opinions. Another system of charges among the brokers is also needed. Why should they not charge a distinct commission, instead of including their fees in the amount to a "buyer," and giving only the net amount to the "seller," leaving both to guess at the expenses they have been put to. In all railway transactions on the Stock Exchange (knowing the fixed rate of charges), you can, on reference to the daily list, calculate pretty nearly what net sum you can obtain, and it ought to be the case with mining shares, which, by the exercise of a little judgment, are a more valuable investment. If, as you say, the brokers set about theestablishment of a Mining Exchange with caution, they need not fear that their clients will leave them; on the contrary, they will attract new ones, and extend the range of mining capital. Although but recently an investor in mines, I have already felt considerable doubts, and experienced the necessity of such a change. Railway shares, bad as many of them are, are bought and sold as property in a fair open market; and if mining shares are not transferred in the same way, the public will begin to think that the majority of mining transations cannot bear the light.

Wells, Oct. 28.

MINING SHARE EXCHANGE.

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MINING SHARE EXCHANGE.

SIR,—I have read with much interest the remarks in the daily papers, having reference to the formation of a Mining Share Exchange, and in common with others interested in mining adventures, attended the meeting held on the 29th October, which I should have been glad, as we say in Cornwall, had it been composed of "One and All;" however, I do believe the best was meant by "all" parties, not excepting "one." Some considered the meeting premature, others declined attending because they were pursuing their own course of operations, while others again, felt that any movement of the kind should be public. Who is right or who wrong, where, I believe, all had but one object in view, it would, indeed, be hard to say; but this I do feel, that whatever measure be adopted, it should be prompt, and, moreover, have the determined support of Cornhill, Nov. 1.

"One and All."

ENGLISH IRON. a per ton. | Tile £83 6-83 10

LATEST CURRENT PRICES OF METALS LONDON, NOVEMBER 1, 1850.

1	Bar, bolt,□,London £5 2 6-5 10 Nail rods	Old copper e per lb. 84d Yellow Metal Sheathing 8d
•	Нооря 7 0-7 10	FOREIGN COPPER.
	Sheets (singles) 7 12 6-8 3	South American 77 0-86 1
	Bars, at Cardiff & Newport 4 10-4 12 6	
	Refined metal, Wales 3 5-3 12 6	Pier ENGLISH LEAD. 9
	Do. anthracite* 3 10 0	Pigper ton16 10-17 1 Sheet17 15-18 1
,	Pigs in Wales 3 0-8 5 0	Pipe 18 10 0
	Do. do. forge 2 5 0-2 10	Red lead 19 0 0
,	Do., No. 1, Clyde net cash 2 2 6-2 3	White ditto 25 0 0
	Blewitt's Patent Refined Iron	Patent shot 20 10 0
ľ	for bars, rails, &c., free on } 3 10 0	
	board at-Newport*)	FOREIGN LEAD. A
	Do., do., for tin-plates, boiler 7 4 10 9	Spanish, in bond 16 0-16 1
	piates, ac., ditto	ENGLISH TIN. i
	Stirling's Patent 7 in Glasgow 2 15 0	Block per ewt. 4 0 0
	Toughened Pigs in Wales 3 10-3 15	Bar 4 1 0
d	Staffordshire bars, at the works 5 5-5 10	Refined 4 6 0
	Rails 12 6-4 15	FOREIGN TIN &
3	Chairs (Clyde) 4 0 0	Banca, H. C 4 0-4
ď	POREIGN IRON. b	Ditto, for Export only
۱	Swedish 11 7 6-12 0	Straits 3 18-3 1
1	CCND 17 10-18 0	TIN-PLATES, I
1	PSI	IC Coke per box 1 6 9-1
J	Gourieff	IC Charcoal 1 12 6-1 1
i	Archangel	IX ditto 1 18 6
1	POREIGN STEEL.C	SPELTER, m
d	Swedish keg	Plates, warehoused per ton 16 10-16 15
9	Ditto faggot	Ditto, to arrive 16 0
J	ENGLISH COPPER. d	2180. n
ı	Sheets, sheathing, & bolts, p. lb. 0 0 91	English sheet per ton 19 10-21
9	Tough cakeper fon 84 0-84 10	
١		
ı	Torms.—a, 6 months, or 21 per cent. dis.;	b, ditto; c, ditto; d, 6 months, or 3 per ct
1	dis.; e, 6 months, or 2) per cent. dis.; f, dit	to; g, ditto; h, ditto; f, ditto; k, net cash
ı	I, 6 months, or 3 p. et. dis.; m, net eash; n	n heard in Wales

REMARKS.—Welsh hars are firm at 41: 122. 6d., with about a month to specify, with buyers at 2s. 6d. less to a considerable extent; orders for rails continued to come forward to a considerable extent. No change to report in Scotch pig, buyers at 42s., and selfert at 42s. 6d. for cash, and is more for three months, open delivery. Swedish bars firmer 150 tons sold at 111. 12s. 6d.—English leads is fair demand. A small parcel of Spanish sold ex-ship at 16d., while 10d. 5s. is quoted to arrive shortly—English in is without alteration, and but little business doing. Bancs, sellers 80d. and buyers 75d., market very quiet. A fair business doing for present shipment in in plates; for forward delivery holders are disposed to sell on easier terms.—Copper continues firm, the makers are not disposed to enter large orders at present prices.—Spelter is quiet, 400 tons sold at 16d. 10s. and for delivery next year, in May and June, 16d. has been accepted for 200 tons.

LIVERPOOL, Nov. 1.—Our market for metals during the past week has been steady. The demand for copper and yellow metal continues undiminished, and our manufacturers are still under contract for some time to come. The trade, generally, appears to maintain a very healthy position; and we trust this satisfactory state of things may continue and become permanent. We had the opportunity, a few days ago, of inspecting some samples of copper from Adelakie, recently arrived, and found the ingots were of most superior quality—in fact, nearly pure copper. This speaks to the spirit of enter-

prise which the great discoveries at the Burra Burra, and other places, have elicited in that distant region. May they go on and prosper! Iron remains unchanged, a 41.17s. 64.0 5f. per ton.

44. 17s. 6d. to 5t, per ron.

By the Overland Mail we have received advices as to the state of the metal markets. From Bombay, under date 3d October, we learn that the inquiry for nearly all descriptions of copper had declined. Heavy stocks are siready in importers' hands, and large quantities are known to be on the way out; and the unfavortable advices from the interior made up-country dealers unwilling to speculate at present. In iron, English bar, sheet, and hoop had declined in value and demand, and the inquiry for square and round nail rod had decreased; while Swedish bar had receded in value. Spelter and sheet-lead had somewhat declined in price. Swedish steel and pig-lead remain as before. At Calculat, the market for metals is unusually stagnant, scarcely any copper had been sold, and the low rates ruling fail to attract even an increased inquiry from Mirzapore. Spelter goes lover, week by week, without any symptom of demand for consumption. Iron, too, is at extremely depressed rates.

Current Prices of Stocks, Shares, & Metals.

Mines.—The actual amount of business has been limited during the week, although many inquiries have been made for shares in particular mines, among which are Bedford United, East and South Tamar, Alfred Consols, and Devon Great Consols.

Copper continues firm at the quotations; lead is in fair demand; tin without alteration, but little doing; and in tin plates there is a fair business.

The proposed Exchange for the transaction of mining hyginess may be

without alteration, but little doing; and in tin plates there is a fair business.

The proposed Exchange for the transaction of mining business may be said to be in the right train for being speedily and vigorously carried out. The subject has been canvassed in the daily journals with a degree of earnestness proportioned to its importance and the interest it has excited in mining circles. We have no doubt that the leading brokers and mine agents who have undertaken the task of forming an open market will proceed firmly towards the completion of their project, unmoved by any casual ebullition of feeling which a movement of this kind is apt to elicit, and uninfluenced by the outery raised in some quarters for a transference of all mining negotiations to the Stock Exchange. By an advertisement which appears elsewhere, our readers will learn the steps actually taken in furtherance of the plan, and the views contemplated by its promoters; and few will dispute the desirability of the objects aimed at, if, as we fully believe, they can be consistently accomplished. We augur much good from the meeting of yesterday evening, at which Mr. Thomas Field presided, as forming of itself a sufficient basis for future operations; and it is our earnest wish that no personal feeling will be allowed to mar the unanimity which should exist in carrying out such an object as a Mining Exchange, the benefits of which will be experienced, as its formation should be assisted, by "One and All."

The monthly sale of Herodsfoot lead took place on Wednesday, when

The monthly sale of Herodsfoot lead took place on Wednesday, when 80 tons realised 11. 12s. 6d. per ton=980l.

The Keswick Mines have sold 20 tons of lead ore—6\(\frac{1}{2}\) at 10l. 5s. per ton, and 13\(\frac{1}{2}\) at 11l. per ton.

At Tregorden, 5 tons of silver-lead ore have been sold, which realised 25l. 10s. 6d. per ton.

The following dividends have been declared during the past month:

Ten per cent. has also been paid by the Union Tin Smelting Company.

The Cradock Moor accounts, for July and Angust, show—Balance, 1031. 78. 9d.; call of 10s. per share, 1051. 10s. = 2081. 17s. 9d.—Labour, &c., 79f. 4s. 9d.; materials, 30l. 15s. 2di: leaving balance in favour of adventurers, 98l. 17s. 10di.

The Gonamena accounts, for July and August months, show—Balance,

The Gonamena accounts, for July and August months, show—Balance, 721. 10s. 5d.; by sale of copper ores, 2601. 19s. 2d.—3331. 9s. 7d.—Labour, &c., 1261. 5s. 9d.; materials, 941. 8s. 9d.; tords' dues, 161. 7s. 3d.: leaving balance in favour of adventurers, 961. 7s. 10d.—The report will be found among the Mining Correspondence.

At the Bodmin Consols two-monthly meeting, held at the offices, on Wednesday, a favourable report was presented by Mr. A. Murray, jun., who had lately inspected the mine, which will be seen among our Mining Correspondence. The usual accounts were passed, showing a balance in favour of the company. In consequence of the important intelligence from the mines, the committee were authorised to increase the monthly cost to 1601., and for that purpose they were empowered to issue the remaining shares, giving the preference to the adventurers; and also, if necessary, to make a call.

At the Mineral Court meeting, a call of 41. per share was made, to meet the loss caused by the erection of machinery, and apparatus for dressing

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South ston I In Mexic has no The tembe made pected East The st viously cut sou freely is no a mine n large 1 is repo had pre expecte given 1 was ex; Wilson 124 ton ment, 1

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At Lle Bromfl ends of the as appear there said Mr. Bush ago, and tune has At Cefe 2 tons of since last

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To the la fortnight Cerrig-yr-leased—via to be seven The imp October we 1400 plates 2479 ditto 7488 ditto 51 barre 28 bags

The imp 28th of Oct 70 casks 8107 sheets 614 plates 437 bars c 99 bags c 425 barrels

the tin. The reports of Capt. Evans, who had just inspected the mine, and of the agent, are, however, satisfactory with regard to the prospects. By the report presented at the East Wheal Leisure meeting, it appears that the expense of the works, including the purchase of engine and machinery, since the commencement of the operations in June last, is less than 1000l. A call of 1l. per share, to provide for future working, is to be forthwith made.

The Heignston Down Consols meeting showed a balance in hand of 432l. 10s. 9d. The amount received from calls, loan of 100l, and sale of ores, was 1478l. 3s. 11d.—Cost of mines for three months ending in Sept., repayment of loan, and dues, 1045l. 13s. 2d.—The report of the agent states that 25 tons of ore and 1½ ton of tin were sampled the preceding Friday. The 45 had been extended more than 9 fms. since last meeting.

At the Wheal Langmaid meeting, the accounts showed—Balance in favour of company, 53l. 3s. 1d.; arrears of calls, 61l. 3s. 6d. = 114l. 6s. 7d.—Another meeting is to be held near the mine in about a month, to determine as to future working, and what muchinery shall be applied. The inspecting agents recommended continuing the 15 fm. level north on the flookan lode, which is rather kindly, and having in it some strings of lead ore on the south part of the lode.

The Runnaford Coombe meeting showed a balance in favour of the adventurers of 18l. 16s. 6d. The sales of tin had reached 1259l. 8s. 7d.; received on calls, 3894l. 6s.; mine cost, 505el. 19s. The accounts had been formally examined and audited, and the affairs of the company were considered by the meeting to be placed on a satisfactory footing.

A further adjournment of Camborne Consols took place, it being understood, however, that the shareholders would be speedily urged to consider the steps most expedient to be taken.

Shares in the following mines have changed hands since our last:—St. Aubyn and Grylls, Bedford United, East Tamar, South Tamar, East Baller, South Bassest, Devon Great Consols, Alfre

South Caradon, Penzance Consols, East Sharp Tor, Pentire Glaze, Heignston Downs, Bawden, Spearne Consols, and Treviskey and Barrier.

In Foreign Mines there have been transactions in Santiago, United Mexican, St. John del Rey, and Australian; but the amount of business has not been considerable, nor have the quotations materially varied.

The Royal Santiago Company have received advices, dated Cobre, September 16, in which it is stated, as will be seen elsewhere, that the efforts made to develope Thompson's shaft had not been so successful as was expected. The lode is from 7 to 8 ft. wide, producing 5 tons of ore per fm. East from shaft the lode is 6 ft. to 7 ft. wide, yielding 6 tons per frthom. The stopes between the 8 fathom and 10 fathom levels are the same as previously reported, with the same quantity of ore. The stratum in the crosscut south, in the adit level, is stated to be disordered, the water flowing freely from the middle part of the level, as before. In Taylor's shaft there is no alteration, nor are any changes of importance in other portions of the mine mentioned in the report.

The report from the Linares Mines, dated Oct. 19, confirms the improvement in the general prospects of the mine, previously described. A large piece of lode standing west, of excellent quality, about 5 fms. long, is reported, and the operations for draining were progressing. The water had prevented any further examination eastward of La Manca; but it was expected that a full report on the mine undersche 45 would be able to be given next week. The tribute pitches continue productive, but less ore was expected to be raised this month, on account of the delay in resuming Wilson's shaft. The ore in stock at Linares on the 12th October was 124 tons 2 cwts.; weighed in, Oct. 19, 11 tons 17 cwts.; sent for shipment, 14 tons 16 cwts.—leaving at Linares 121 tons 3 cwts.; at Swille, 60 tons 3 cwts.; at Malaga, 101 tons: total in Spain, 282 tons 6 cwts.; on board ship, 121 tons 5 cwts., making the total of ore in stock, 403 tons 11

At a meeting of the board of directors of the United Mexican Mining Association, held yesterday, it was determined that if the next advices (expected early in the ensuing week) should prove equally favourable with the last, a dividend should be immediately declared, without waiting until January next, as was contemplated.

A private meeting of the governor and directors of the Company of Coppers Miner in England will be held on Wednesday, the 6th inst., in order to adopt such arrangement as will lead to a final and satisfactory agreement with the Bank of England.

At the Galvanised Iron Company's meeting, the steps taken by the directors, which were detailed at length in their report, for effecting an arrangement of the affairs of the company, were ratified and approved. The meeting was held under the Dissolution Act, in 1848. Further steps are in progress for a settlement of the claims and liabilities of the company.

The mining news of the week from Wales is very satisfactory.

East Daren (improperly so called, because there are between it and Daren two other mines, not under the same company; its proper name is Gwaith-du) is in a great course of ore. The engine went to work last week, and the water is out by this time.

At Bwich Consols, the 45 fm. level west is worth 45l. per fm. Level Newydd is in good ore.

At Cefn Cam Brwyno, the engine shaft and western end (the 20) have passed into famous ore.

passed into famous ore.

Allt-y-Crib steadily increases in value. The western end holds with undiminished goodness, and the length of the course of ore is as yet quite unknown. The pit and wheel are ready, waiting only for some castings from Aberystwith.

undiminished goodness, and the length of the course of ore is as yet quite unknown. The pit and wheel are ready, waiting only for some castings from Aberystwith.

A copper mine at Treddol, discovered within the last few years, is just put on by a new company. They are stoping and rising, with some ore. At Havan they are driving east in the soft ground, with four or six men, meaning probably to cross-cut into the lode when they want ore, which is not considered by everybody to be a good plan of operations.

At Lletten-hen, the engine-shaft is sunk about 17 fms. from the surface, and is at the bottom in a good dry lode.

Bromfloyde, an old mine newly put on, is yielding good ore from the ends of the Parson's adit. This mine was worked by Bushel, about 1630, as appears from a General View of South Wales, published in 1815. It is there said that "Cwmsymlog being considered as drained of its treasures, Mr. Bushel turned his attention to the five mines of Daren, Talybont, Broomefloyde, Goginan, and Cwm-ervin." It is curious to observe here that Cwmsymlog was thought to have been exhausted more than 200 years ago, and it is equally curious to know that more than one very large fortune has been made therein since.

At Cefn Bruno, the lode in the whim-shaft is 4 ft. wide, now yielding 2 tons of ore per fm. The lode in the adit west has not been taken down since last report. The lode is expected to be cut by the deep cross-cut in about six or eight weeks.

At Cwmystwith, the lode in the 30 west looks strong, with a great deal of mundic, and some ore. The 36 cast continues in good ore. The 30 cast is poor, but in a strong lode, will much water. Taylor's level is set to drive east on the great coppery lode, in which something like the north wall has been met with, but no ore. The stopes continue to look well.

At Nanteos, the lode in the 30 fm. level is 5 ft. wide, yielding 15 cwts. of ore per fm. In the winze below the 20 it is 4 ft. wide, yielding 1 ton per fathom. The 20 east, 12 cwts. per fm. The lode in the 40, east o

To the list of mines in the Cardiganshire district, given in the Journal a fortnight since, are to be added Tynfron, Cwmshop, Poole's Llywernog, Cerrig-yr-wyn, Twll-y-mwyn, and West Goginan, of which two only are leased—viz., the first to Mr. Taylor, and the last to Mr. Hitchins, where active trials for ore are being carried on. The total number thus appears to be seventy-nine.

The imports of ores and metals at London in the week ending 24th of

etob	er we	re-			
1400	plates	of zinc	from	Hamburgh	
7499	ditto	ditto	from	Stettin	
51	barrel	s ditto	from	Antwerp	

1512 ingots of copper from Sydney 81 bars from from Antwerp 341 ditto from Schien -1654 ditto from Rotterdam 159 bags antimony from Bibboa 9200 lbs. quicksliver from Seville 28 bags copper ore and regulas from Valparaiso

Valparaiso | 99200 lbs. quicksliver from Seville
The imports of ores and metals at Liverpool in the fortnight ending
28th of October were—

70 casks of zinc from Ostend
8107 sheets dithe from Stettin
417 bases dithe from Stettin
427 bars copper from Islay
428 bars long from St. Petersburgh
100 tons lead from Cartagena
3231 bars ditto from ditto
425 barrels nails from Antwerp

HULL, TRURDAT,—Mesars. T. W. Flint and Co. state that mining shares have been a degree less active, but prices have, with one or two exceptions, been pretty well maintained. St. Aubyus are flatter, and so are Wellingtons; Gustavus, on the other hand, have improved—5t. refused.; West Tolgas, South Tamars, and Alfreds, in fair request, as are also Tromaynea.—Railway shares are not so good, owing to the arrangement of the accounts. Many holders who were fortunate enough to come in before the late rise have realised, instead of paying for, their stock; added to which, the bears are rather taking heart, and operating to a small extent. We do not, however, look for a serious ing heart, and ope line in prices.

LEAD ORES. TICKETINGS FOR ABOUT 100 TONS FOXDALE LEAD ORE. Douglas, Isle of Man, Ociober 26,

Bidders.	Perior	-	
		t per	Ton
Newton, Keates, and CoBagillt (purchasers)	£11	14	- 6
J. H. Meredith (trustee of late J. T. Treffry) -Fowcy Consols.	!	10	6
Combmartin Smelting Company—Barnstaple	1	4	6
Tamar Smelting Company-Beeralston		17	6
Sims. Willyams, Nevill, and CoLlanelly		13	6
Walker, Parker, and CoDee Bank		11	0
Mather and CoBagillt		13	0
Pontifex and Wood-Newcastle		6	0
Locke, Blackett, and CoNewcastle	10	2	6

	THE RESERVE TO SERVE THE PARTY.	80	ld in 1	ondo	n.		541	5.705
Mines.		Tons		Price	per	Ton	1.	Purchasers.
Keswick	** ** ** ** ** ** ** **	. 6		. £10	5	0		Lozke, Blackett, & Co.
ditto	** ** ** ** ** ** ** **	. 13		. 11	0	0		ditto
								Walker, Parker, & Co.
Callington		. 30		. 16	10	. 0		Locke & Co.
CONTRACTOR OF THE PARTY		Sol	dat th	a Min	6.			
Tregorden		. 5	** ** *	. £25	10	6		Tamar Company.
Bwich Consols		45		. 14	18	6		Newton, Keates, & Co.
East Wheal Rose		. 60		14	11	6		Michell & Co.
ditto		. 36		. 13	1	6		Sims & Co.
	IDE UNE INC. NOTIFICALLY		10.10		-		C206-1	

COPPER ORES

Sampled October 9, and Sold at Su nsea, October 29, 1850.

Mines.	Tons.	Prod.	Price.	Mines.	Tons.	Prod.	Price.
Cobre	. 89	164 £12	2 6	Cobre	. 20	181 £1	3 8 6
ditto	. 56	164 12	0 6	Cuba	. 92	114	8 4 0
ditto	. 47	23417	19 6	ditto	. 86	111	8 8 0
ditto	. 42	1914	5 0	ditto			
ditto	29	234 17	14 6	ditto			8 5 6
ditto	. 24	1914	18 6	ditto	. 62	251	9 0 6
ditto				ditto	. 61	234	7 17 6
ditto	. 88	16# 12	2 6		. 34	181	3 15 0
ditto	60	244 18	2 0	ditto	. 10	281 2	2 0 6
ditto	. 52	242 18	6 0	Knockmahon	96	74	5 13 6
ditto	76	152		ditto	. 80	84	7 2 0
ditto	51	214 16	10 6	ditto	. 79	8	5 19 0
ditto	10	174 12	17 0	Kapunda	. 16	424 3	3 0 6
ditto	46	20 15	1 6	Ballynoe	. 8	1461	1 6 0

TOTAL PRODUCE. Cobre 790 £11190 8 0 Knockmahon..... 255 £1582 17 0 Cuba 496 5703 0 0 Kapunda 16.... 528 8 0 Ballynos 8 £90 8 0

COMPANIES BY WHOM THE ORES WERE PURCHASED. Total 1565 £ 19,095 1 0

Copper Ores for Sale Nov. 19.—Bearhaven 439—Chill 421—Cobre 400—Knockmahor 254—Burra Burra 139—Kaw-aw 126—Spanish 74—Waterloo Slag 70—Kapunda 31— Ballynoo 23.—Vine Slag 19.—Sasad Ore 10—Australian 8—Londou Slag 4—Ballymurtagh 1—Lydney 2.—Total, 2025 tons (21 cwts.)

	AVERA	GES.			- F3000 UCT 01		
	oduce.		rice			nda	
British	88	. £ 6	7	0	£102	0	6
Foreign	178	. 13	7	0	87	13	0
Sale	161	£12	4	0	£88	6	6
Totals—British, 2	63; Foreign,	1302 =	= 15	65	tons (21 cwts.)		
AVI	ERAGES OF	LAST	SA	LE		-4-	104
Pr	roduce.	F	rice	9.	Sta	ında	rd.
British	94	. £ 7	0	2	£96	14	0
Foreign	102	. 13	10	0	******* 86	12	0

Totals -British 674; Foreign, 968 = 1642 tons (21 cwts.) COPPER ORES

£10 18 0

£89 7 0

Sale 144

Sampled Oct. 16, and Sold at Andrew's Hotel, Redruth, October 31. Tons.

		L'UNS.				60
				£4	12	0
				5	10	6
9 15	6 ditto	76		5	19	6
5 14	0 ditto	70		5	3	0
1 17				4	11	6
7 11	0 Wheal Seton.	86		4	6	0
7 2	6 ditto	69		6	3	0
**** 7 13	6 ditto	68		4	16	0
6 2	6 ditte	65		2	7	6
1 12	ditto	6.00		4	12	6
2 12	ditto	0.4		6	5	0
1 16		32		2	15	0
3 16	6 Wheal Basset	96		3		0
4 2	ditto	90		6	9	6
4 1				3	19	ő
5 4		59				0
4 8 1		ances 88	1000	24	9	0
4 13					8	0
6 18				0	10	0
2 3 (ditto	43				0
9 1 0					9	6
3 19					19	6
3 19 (6
2 10 (ditto			7		ŏ
3 11 6	Wh. Vyyyan	13		0		6
2 14 (ditto	12				6
	Treffry's regu	ns., 10			ä	6
	East Seton and	7		**		"
		3 7		6	3	6
		5 13 0 ditte 9 15 6 ditte 9 15 6 ditte 1 17 6 ditte 7 1 10 Wheal Scion- 7 13 6 ditte 6 12 6 ditte 1 17 6 ditte 6 12 6 ditte 1 1 16 0 ditte 1 1 16 0 ditte 2 1 12 6 ditte 3 1 16 0 ditte 4 1 6 ditte 4 1 6 ditte 4 1 1 6 ditte 4 1 6 ditte 5 4 6 ditte 6 18 0 ditte 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	### 6 12 6 Consolidated 84 5 13 0 ditto 76 9 15 6 ditto 76 117 6 ditto 76 117 6 ditto 67 7 11 0 WhealSeton 88 6 2 6 ditto 69 112 0 ditto 65 112 0 ditto 65 112 0 ditto 65 112 0 ditto 65 116 0 ditto 61 116 0 ditto 62 3 16 6 WhealBasset 96 4 1 6 ditto 81 15 4 6 ditto 81 15 4 7 6 ditto 81 15 4 8 0 South Wh. Frances 88 4 13 0 ditto 43 9 1 0 ditto 43 9 1 0 ditto 45 3 19 0 Fowey Consols 81 3 19 0 Fowey Consols 81 3 11 6 Wh. Vyvyan 13 2 14 6 Trefffyty regulus 10 2 3 3 6 Trefffyty regulus 10 2 8 8 0 East Seton and 7	## 6 12 6 Consolidated	## 6 12 6 Consolidated	### 6 12 6 Consolidated 84

						RODUCE.		7 100			
Tincroft	698		2489	2	0.1	South Wh. Frances Fowey Consols	999	113 7147	1804	10	
Consolidated	486	****	2587	10	01	Wh. Vyvyan Treffry's regulus	25 .	****	124	6	6
Wh. Seton	444		2035	-11	0.1	East Seton and ?					171
				-	-						

COMPANIES BY WHOM THE ORES WERE PURCHASED.

Copper ores for sale on Thursday next, 4t Andrew's Hotel, Redruth.—Mines 'and Par cels.—Carn Brea 734—Tywarnhayle 437—Wheal Buller 314—Alfred Consols 261—Levant 251—Par Consols 260—Wheal Tremayne 160—Wheal Agar 44—Cook's Kitchen 26—Boccaswell Downs 13—Polgooth 12—Trelyon Consols 12—Boswidden 11—Boscundi 16—Wheal Tehidy 10—East Wheal Treasury 10—Providence Mines 7.—Total, 2656 tons NO SALE on Thursday week, November 14.

MINING APPOINTMENTS DURING THE WEEK.

APTOINT ABENTS DOKING THE WEEK.

1. Pay day at Carnbrea, South Basset, East Pool, Tincroft, South Tolgus & Wh. Ellen

2. Pay and setting at Wheal Mary, West Jewel, Stray Park, Dolcoath, Devon Consols, at Perran St. George.

4. South Frances account on the mine. Fowey Consols sampling.

5. Devon Consols, and other mines sampling.

7. Ticketing at Redruth. Carnbrea and other mines.

8. North Fool setting. Pay at West Caradon and Gonamena.

9. Par Consols pay. Pay and set West Treasury. East Crofty pay and Phoenix.

PRICES OF MINING SHAPES

33.14	DDPPIQU MINDS
Sha (BRITISH MINES. Company Paid. Price. Aborgwessin (silver-lead), South Wales
1024 1248 1624	Alfred Consols (copper), Hayle, Cornwall
903	Balloswidden (tin), St. Just, Cornwall 9 10 104 Balnoon Consols (tin), Uny Lelant, Cornwall 48 50 Barristown (lead), Carrick, Ireland 54
3650 4000 1280	Bawden (silver-lead), Coruwall
1500	Birch Tor and Vitirer (tin), Dartmoor, Devon
8000 1024 5000	Blaenavon (fron), South Wales
128	Bodewall and Nanpean (tin), St. Just, Cornwall 1 3
100 1500	Bosorn (tin), St. Just, Cornwall
10000	British Iron, New, regis. (Iron), South Wales 12 8 Ditto ditto, scrip
2400 107 406	Bryn-Ariau (lead), Cardiganshire 2 2 2 1 1 Budnick Consols (tin), Perranzabuloe, Cornwall 52 10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1000	Bwlch Consols (silver-lead), Cardiganshire 4
1000 20000 1168	Camborne Consols (copper), Camborne, Cornwall
256 1536	Caradon United (tin and copper), St. Cleer, Cornwall 24 5 8 Caradon Vale (copper and lead), St. Ivo, Cornwall 11 11 11
1000 1000 3000	Carrbona (tin and copper), Crowan, near Camborne 5 10 Carn Brea (copper and tin), Illogan, Cornwall 15 117 1: Carthew Consols (cop. & lead), near Wadebridge, Cornwall 3 4 4
132 200 113	Cefn Bruno (lead), Cardiganshire 6 11
500 128	Comfort (copper), Gwennap, Cornwall
2560 2560 1000	Couldurrow (copper and tin), Camborne, Cornwall 20 110 111 Cook's Kitchen (copper and tin), Illogan, Cornwall 14 5 Coombe Valley Quarry (slate), St. Ginnis, Cornwall 5 2
900	Coombe Valley Quarry (slate), St. Ginnis, Cornwall. 5 2 Copper Bettom (copper), Crowan, Cornwall. 5 7 Court Grange (silver-lead), Cardiganshire 10 10
211 1600 256	Craddock Moor (copper), 8t. Cleer, Cornwall 27 8 Craig-y-Mwyn (lead), Lianrhiadr, Montgomeryshire 4 8 Crane and Bejawsa (copper), Camborne 2 10
1000	Cwm Erfin (lead), Cardiganshire 4 44 Cwmystwith (lead), Cardiganshire 60 90
1000 7100 1040	Derwent (silver-lead), Cardiganshire
1024	Devon Great Consols (copper), near Taylstock 1 225 230 Dhurode (copper), Ireland 5
182 2560 10000	Dolcoath (copper and tin), Camborne 30 90
3000 1024 2500	Dyfngwm (lead), North Wales
1024 128	East Burler (copper), near Redruth, Cornwall
2048 150 256	East Orowndale (tin), Tavistock
4000 1024	East Balleswidden (tin), Sancreed, Cornwall 3 3 3 3 3 3 3 3 3
128 256 1024	East Pool (tin and copper), Pool, Illogan, Cornwall 15 76 East Seton and Wheal Maude, near Redruth, Cornwall 44 East Sharp Tor (copper), Devon 8
9000 256	East Sharp For (copper), Devon East Tamar Consols (allver-lead), Beer Ferris, Devon 12 12 13 East Tolgus (copper), Redruth, Cornwall 14 8
1000 128 94	East Trescoll (tin), Lanivet, near Bodmin, Cornwall
256 1000	East Wheal Frances, Illogan 13 24
512 128 1280	East Wheat leasure (copper), Perrangabaloe
248 494 1024	Exmoor Wheal Eliza (copper), South Molton, Devon 11 10 Fowey Consols (copper), Tywardreath, Cernwall 40 30
256 4000	Freidd Llwydd Mines (lead), Wales 11 34 35 Garras (lead), near Truro 41 23 General Mining Company for Ireland (copper), Ireland 1 4 25
100 256 2500	Gonamena (copper), St. Cleer, Cornwall
256 96	Georgia Consois (tin), St. Ive's, Cornwall. 2 3 Grambler and St. Aubyn (copper), Redruth, Cornwall 80 28 30 Great Consois (copper), Gwennap, Cornwall 1000 250
512 1024 3072	Great Wheal Baddern (tha and silver-lead), Kea, Cornwall 20 100 Great Sheba Consols (tha and copper), Stoke Climshand. 2 44 Great Wheal Mitchell Consolidated, Lanivet
512 6000 1026	Quema Clate Commence Complement Comments
512 1024	State
5000 1500 512	Heighston Down Consols (copper), Calstock, Cornwall. 2½ 33½ Hennock (silver-lead), Hennock, near Exeter, Devon 26s 22½ Herodsfoot (lead), near Liskeard 16 13½ 14
0000	Holy buch (lond and convey) Calllanter
1900 1024 787	Kingsett & Bedford (lead & copper), St. Mary Tavy, Devon 32 3
252	Zanarti Consols (copper), Gwennap, Cornwan 9
256 160 000	Levant Consols (tin), Uny Leiant, Cornwall 53 25 Levant (copper and thi), St. Just, Cornwall 175 Lewis (tin and copper), St. Erth, Cornwall 17 15 16
100	Lisburne (lead), Cardiganshire 75 600 Livynmaices (lead), Cardiganshire 91 910
600 6000	Liyivi Iron (Iron), Rorta wites 50 50 Marke Valley (copper), Caradon, Cornwall 10 51 Mendiy Illia (lead), near Bristol 31 14 14
128 256	Metha (lead) Newlyn, Cornwall Mill Pool (tin and copper), St. Hilary and Germoe, Corn. 14 84 Mineral Court (tin), St. Stephens, near St. Austell . 134 16
256 000 024	Mining Co. of Ireland (copper, &c.), Waterford, Ireland. 7 Moditonham & Marrabro (copper & lead), Botes-fieming 14 Nanteos (lead), Cardiganshire 6 Nanteos (lead), Cardiganshire 34 Nanteos (lead), Cardiganshire 34 Nanteos (lead), Cardiganshire 34
024 200 000	Montgomery (lead and copper), Montgomeryshire 6 11 2 1 Nanteos (lead), Cardiganshire 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
024	Nanteos (lead), Cardiganshire 34 12 Nant-y-Car (copper), near Rhayader, Breconshire 5 5 Now East Crowndale (copper and tin), Tayistock 2 2 North Wheal Basset (copper and tin), Hogan, Cernwall 18 2 North Buller (copper), Redruth, Cornwall 3 6 7 North Meal Buller (copper), Redruth Cornwall 5 7 North Levant (tin and copper), St. Just, Cornwall 45 400 North Pool (copper and tin), Pool, Cornwall 5 160 North Tolgas (copper), Redruth, Cornwall 5 160 North Tolgas (copper), Redruth, Cornwall 2 2 1 North Wheal Vor (tin), Breage, near Helston, Cornwall 5 6 Par Consols (copper), Blazey, Cornwall 5 6 Par Consols (copper), Blazey, Cornwall 5 6 Pendarves Consols (copper), Camborne, Cornwall 2 6 Pendarves Consols (copper), Camborne, Cornwall 2 6 Pendarves All St. Anbyn (copper), Camborne, Cornwall 4 5 6 Pendarves All St. Anbyn (copper), Camborne, Cornwall 5 6 Pendarves Consols (copper), Camborne, Cornwall 5 6 Pendarves Consols (copper), Camborne, Cornwall 5 Pendarves Consols (copper), Camborne, Cornwall
024 200 000	North Buller (copper), Redruth, Cornwall 3 6 7 North Wheal Buller (copper), Redruth Cornwall 5 7 North Levant (tin and copper), St. Just, Cornwall 3
100	North Pool (copper and tin), Pool, Cornwall 45 400 North Roskeur (copper), Camborne, Cornwall 54 160 North Tolkeus (copper), Redutib, Cornwall 54 160
256 262 512	North Tolgus (copper), Redruth, Cornwall 21 21 12 13 North Wheal Leisure, Perranzabuloc, Cornwall 11 12 13 North Wheal Vor (tin), Breage, near Helston, Cornwall 5
128	Par Consols (copper), St. Blazey, Cornwall
000 1 934 048	Pendarves and St. Anbyn (copper), Camborne, Cornwall 4 51 6 Pennant and Craigwen (lead), Wales 3 Pentire Glaze, United (silver-lead), St. Minver, Cornwall 5 81
160	Perran St. George (copper and tin), Perranzabuloe 213 8 10
024 000 512	Pengance Consols (tin), Sancreed, Cornwall
000 000 1	Ditto Preferential 15 — Polberrou (tin), St. Agnes, Cornwall 15 — Providence Mines (tin), Uny Lelant, Cornwall 15 —
000	Poliberron (fin), St. Agnes, Cornwall 15 Providence Mines (fin), Uny Lelant, Cornwall 10 Rioswydol and Bachelddon (lead), North Wales 10 Rhymney Iron (Iron), Rhymney, South Wales 50 12
000 I 000 I	Ditto New Roche Rock (tin), Roche, near St. Austell 1 Rocks Mine (tin), Roche, near St. Austell 5 Rocks Mine (tin), Roche, near St. Austell 5
148 I	Runnaford Coombe (tin), Devon
28 S 00 S	South Caradon (copper), St. Cleer, Cornwall 5 205 South Cara Brea (copper), Illogan, Cornwall 10 12 South Dolcoath (copper), Illogan, Cornwall 6 3
56 8	Rhymney Fron (Iron), Rhymney, South Wales
24 S 00 S	outh Plain Wood (copper), Ashburton, Devon 2 6 7 outh Speed (copper and tin), Uny Lelant, Cornwall 15 30 outh Tamar (sliver-lead), Beer Ferris, Devon 1 24 22
56 S	outh Tolgus (copper), Redruth Cornwall
00 S 56 S 24 S	touth Wales Mining Company (lead), South Wales 1 1 104 310 320 douth Wheal Basset (copper), Illogan, Cornwall 166 560
56 S 00 S 80 S	outh Wheal Josiah (copper), Calstock, Cornwall 2 31 4 outhern and Western, Irish (copper), Cork, Ireland 21 4
28 S 56 S	pearine Moor (copper), St. Just, Cornwall

Phillips William Annual	
Shares. Company. Paid. P.	
34	9
299 St. Minver Consols (silver-lead), Cornwall 100 Stray Park (copper), Cambonne, Cornwall 10\$ 22 9600 Tamar Consols (silver-lead), Beeralston, Dovon 4 24 25 26 27 28 29 29 29 29 29 29 29	3
9600 Tamar Consols (cilver-lead), Beeralston, Devon	3
128 Tokenbury (copper), St. Ive, near Liskeard	
2048 Trabell Consols (tin and copper), Llanivet, near Bodmin 1 2 512 Traburget United (lead), St. Teath, Cornwall	
8000 Tregear Consols (antimony and silver-lead), St. Kew 1 2 256 Tregorden (silver-lead) Wadebridge, Cornwall	17
256 Trehane (aliver-lead), Menheniot	18
150 Trelyon Consols (tin), St. Ive's, Cornwall	ı
1506 Tremanit (lime quarries) 24 34 35 36 Tremanean (copper), Gwennap 10 13 130 Trethellan (copper), Gwennap 5 30 30 30 30 30 30 30)
120 Treviakey and Harrier (copper), Gwennap, near Redruth 130 24	
512 Traville (lead), Lawanick 15 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
500 Tywarnhayle (copper), illogan and St. Agnes	
128 West Buller (copper), Redruth, Cornwall 10 690	
	6
West Foway Consols (tin and copper), St. Blazey	
512 West Providence (tin), St. Erth, Cornwall	
512 West Providence (tiu), St. Erth, Cornwall 10 25 200 West Seton (copper), Camborne, Cornwall 45 175 740 West Trethellan (copper), Gwonnane, Cornwall 124 7 74 75 75 75 75 75 75	
812 West Wheal Frances (copper), Illogan, Cornwall 13 142 1024 West Wheal Friendship (copper), Devon 3 3 3846 West Wheal Jewel (tin and copper), St. Day, Cornwall 12 24	
2048 West Wheal Rose (lead), Cornwall	
1024 West Wheal Treasury (copper), Gwinear, Cornwall 89	
8200 Wicklow (copper), Wicklow, Ireland 5 17½ 5000 Wicklow (copper and sulphur), Wicklow, Ireland 3 3½ 107 Wheal Adams (lead), Christow, Exeter 130 150	
1000 Wheal Agar (copper), Illogan, Cornwall 5 6 256 Wheal Albert (copper), Cornwall 10 28 25	
128	
1000 Wheal Agar (copper), Cornwall 5 6 6	
256 Wheal Benny (copper), Calatock, Cornwall	
232 Wheal Calstock (copper), Calstock, Comwall 9 10 236 Wheal Carpenter (tin and copper), Gwinear, Cornwall 5	
268 Wheal Courtenay (copper), Cornwall 20 28 1024 Wheal Crubor (copper), Tavistock, Devon. 14 24 3 500 Wheal Daniell (copper), Chacewater 5	
182 Wheal Elizabeth (copper), Redruth, Cornwall 9 524 1024 Wheal Emily (lead and antimony), near Plymouth 3 54 64	
1024 Wheal Fortescue (copper), near Tavistock, Devon 4 1 12 764 Wheal Franco (copper), near Tavistock, Devon 27 7	
100 Wheal Friendly (tin), St. Agnes, Cornwall 70 65 128 Wheal Friendship (copper), Devon 120 4000 Wheal Golden (lead), Peranzabulce, Cornwall 2 5	
1000 Wheal-an-Grose (tin), St. Columb Major, Cornwall 5 5 6 2560 Wheal Harriet (copper), Camborne, Cornwall 2 2 1 1024 Wheal Hamlyn, near Oakhampton, Devon 4 1 14 14 14 15 16 16 16 16 16 16 16	
9049 Wheel Hawis (load) near Tayletock	
100 Wheal Henry (copper), Kon, near Truro, Cornwall 40 235 Wheal Kingston (copper and sliver-lead), Stoke Climsland 11 6000 Wheal Langford (copper and sliver-lead), Callington 11 12 13	
2000 Wheal Langmaid (lead), Devon	
1024 Wheal May (silver-lead and copper), Botes-fieming 1 1 1 1 24	
3000 Wheal Penhale (lead and copper), Cornwall	
128 Wheal Pollard (copper), St. Clear, Cornwall 154	
120 Wheal Reeth (tip), St. Ive's, Cornwall 41 120	
198 Wheal Seton (copper), Camborne, Cornwall	
512 Wheal Sophia (silver-lead), Lezant, Cornwall 63 7 128 Wheal Squire (copper), St. Erth, Cornwall 5 5 1000 Wheal Susan, Breago and Crowan, Cornwall 4 2 2 5 5 5 5 5 5 5 5	
1000 Wheal Susan, Breage and Crowan, Cornwall 2 512 Wheal Trefasis (copper), Gwennap, Cornwall 5 6 1100 Wheal Trescoll (din), Lanivel, near Bodmin, Cornwall 6 6 6 6	
520 Wheal Trelawny (aliver-lead), near Liskeard, Cornwall 35 44 45 256 Wheal Tremaine, St. Ervan, Cornwall 95 22 26 25 26 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	
1024 Wheal Tremayne (tin and copper), Gwinear, near Hayle 9 15# 16# 267 Wheal Tryphena (tin and copper), Camborne, Cornwall 40 62#	
126 Wheal Union (copper), Redruth, Cornwall 38 40 512 Wheal Venton (silver-lead), Liakeard, Cornwall 34 4 4 4 4 4 4 4 4	
128 Wheal Violet (tin and copper), St. Stephens, St. Austell. 2 2 128 Wheal Viow, Perranzabuloe 5	
The state of the s	
FOREIGN MINES. 5006 Alten Mining Corapany (copper), Norway 148 18 2	
2000 Anterior Bay Mining Association, Jamaica 1 1 2 2 2 2 2 2 2 2	
0000	
2000 Cobre Copper Company (copper), Cuba	
Shoot Linares (lead), Spain 3 2 2 2 2 2 2 2 2 2	
5000 National Brazilian (gold), Brazil	
1000 North British Australasian (copper), S. A. & New Zes. 1	

CURRENT PRICE OF GOLD AND SILVER.

Foreign gold, in barsper oz. £3 17 9 New dollars......per oz. £0 4 10 Portugal pieces.... 0 0 0 Silver in bars (standard) 0 5 0

COAL MARKET, LONDON.

PRICE OF COALS PER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Begole's Hartley 14 6—Carr's Hartley 15 3—Davison's West Hartley 15 3—East Adair's Main 12 6—Holywell 16—Original Windoor's Pontop 12 6—South Peareth 12 9—West Hartley 15 3—Wylam 14 6—Wall's-End Morrison 15 3—Bell 15 9—Belmont 15 9—Braddyll 16 3—Hetton 16 6—Haswell 16 9—Lambton 16—Russel's Hetton 16—Backhouse-15 3—Kelloe 16—Adeladde Tees 16—Richardson's Tees 14 3—Seymour Tees 15 6—South Durham 15 6—Tees 16 6—Birchgrove Graigola 19—Cowpen Hartley 16 3—Deep Vein Miliford Stone 23—Derwentwater Hartley 14 9—Hartley 14 6—Sidney's Hartley 15 3.—Ships at market, 59; sold, 41.

WEDNISDAY.—Botels Wast Hurtley 14 0—Buddle's Wast Hartley 14.

-Sidney's Harriey 15 3.—Ships at market, \$9; \$01d, 41.

WEDNESDAY.—Bate's West Harriey 14 9—Buddlo's West Harriey 15—Begble's Harriey 14—Carr's Harriey 14 9—Chester Mein 146—Clavering's New Tanfield 13 3—Coxon's West Harriey 14 9—Ravensworth West Harriey 14 5—East Adair's Main 12 6—North Percy Harriey 14 9—Ravensworth West Harriey 14 9—Tanfield Moor 13—Walker Primross 13—West Harriey 14 6—Wylam 14 9—Wall's-End Bewicke and Co. 15 3—Bell and Brown 15 3—Gosforth, 15 3—Northumberland 14 9—Bell 15 9—Bellmont 15 6—Braddyll 16 3. 15 3—Gosfotti 15 3—Northumberland 14 9—Bell 15 9—Bellmont 15 6—Braddyll 16 3—Hetton 16 6—Kepler Grange 15 9—Richmund 16—Russel's Hetton 16—Stewart's 16 6—Whitwell 15 2—Heselden 15—Kelloe 16 3—Thornley 16—Whitworth 14 6—Clevoland Tees 15 6—Maclean's Tees 14 9 to 15—Seymour Tees 15 6—Tees 16 6—Vernon Tees 15 3—Birchgrove Graiglot 19—Cowpen Hartley 16—Grossefeld Meathyr and Gadley's Steam 18 9—Deep Vein Milford Stone 23—Hartley 14—Sidney's Hartley 14 6.—Ships, 76; sold, 59.

-Deep Vein Milford Stone 22 - Hartley 14 - Sidney's Hartley 14 6. - Ships, 76; sold, 59. FRIDAY, -Ctavering's New Tanfield 13 3-Coxon's West Hartley 14-East Adatr's Main 12-Heaton Hartley 13 9-Windsor's Ponton 12-Ravensworth's West Hartley 14 6-Wall's End Acorn Close 15 6-Bell and Brown 15 6-Original Gibson 14 9-Walker 15-Bell 15 9-Braddyll 16-Hetton 16 6-Haswell 16 6-Lamboun 16 - Blackhouse 15 3-Caradoc 16-Heugh Hall 16 6-Kelloo 16-Adelaide Tees 15 9-Birchgaver Gragola 19-Deep Vein Milford Stone 23-Derwentwater Hartley 14-Hartley 14-Wawton Main 13-Nixon's Merthyr and Cardiff 21 6-Sidney's Hartley 14 9. - Ships at market, 43; sold, 33.

By late accounts we learn that the successful working of the copper mines on Lake Superior was attracting considerable attention. They promise most important results to the adventurers, and may prove of more real advantage to the United States than some of the more glittering discoveries in California. It is estimated that nearly 2,500,000 lbs. of rough copper will be brought down this year from the mines. This large production, and its probable further increase, may at no very distant period of time, taken in connection with the results obtained from the Australian mines, very seriously interfere with the sale of British copper in foreign markets.

THE MINING EXCHANGE OF LONDON. At a numerous MEETING of GENTLEMEN engaged in MINING, as Capitalists Brokers, and Agents, hold on the 1st inst., at the offices of Messra. Goode, Browne, & Co. 10, King's Arms-yard, Moorgate-street,

tution be founded in the city of London, to be called the "MINING

EXCHANGE OF LONDON."

That the objects of the institution shall be as follows:—

To furnish such a mart for mining property as its large importance demands. For the accumulation of such statistics as to all mining property which either For the accumulation of such statistics as to all mining property which either deserver engage British skill and enterprise.

For the regulation of all transactions carried on within the institution, and for limit the enterprise of the regulation of all transactions carried on within the institution, and for limit that the regulation of all transactions carried on within the institution, and for limit that the regulation of all transactions are stabilities as the regulation of the regulation o

For the regulation of all transactions carried on within the institution, and for limiting these transactions to such as are strictly creditable and legitimate.

That a committee of seven persons be, and are hereby, appointed to inquire and report on the best means of carrying into effect the objects above stated, and that three be a quorum, and that they have power to add five to their number.

That the committee have power to avail themselves of the services of a secretary, to aid in the preparation of their report.

NOTICES TO CORRESPONDENTS.

S. and W." (Hull).—One of the chief benefits we anticipate from the proposed M Exchange is the publication of an authorised Share List. We use every endeavor obtain accurate information, and we can only regret there should exist an much of complaint.

the seit.

T. W. F."—The Journal containing the particulars of "the Cost-book System—its Principles and Practice," has been long out of print: we intend re-publishing the paper, with additions, on an early opportunity.

K. C. L."—There is no institution of the precise nature named in existence, but the formation of one, the Royal Panoption of Science, has been long contemplated. Mr. Wesle, of Holborn, has published a valuable series of rudimentary treatises, which may be called a scientific library, of which a catalogue and particulars can be readily procured on application.

W. C." (City).—We decline inserting the letter. We cannot allow general charges of such a nature to obtain publicity through our columns. If there is any truth in the individual case referred to, a lawyer should be consulted as to the best means of obtaining redress.

-We have a letter for "B. W." (Whitehaven), whose address has been n J. K." (Headington).—The Cost-book System requires that every shareholder's name should be entered in the cost-book of the company. The bye-laws for the governmen of the property are generally arranged by the body at the first general meeting, and the powers of the committee are in nearly every case fixed by the Deed of Settlement Some portions of our correspondent's communication seem to be rather obscere, and we should wish to be informed of further details. On the Cost-book System, no amount can be determined as the value of a share, guaranteed from further liability, as call are made when the exigency of the mine requires, and dividends pro rată are declared whenever their payment is warranted.

are made when the exigency of the mine requires, and universely are made when the exigency of the mine requires, and universely content and the first of much of what is stated by our correspondent respecting the Share List generally, but not in the instances named. Each of the quotations were forwarded by respectable brokers, and we are assured they were accurate.

J. W. C. (Gunnis Lake). —The letter is not adapted for publication: our readers would feel no interest in the dispute. Practical joking is generally very dangerous.

S. M. (Callington). —As a general rule, all leases, or other interests in the land, created by a mortgage state of the mortgage concurs. It is usual for the mortgages to concur in leases granted by a mortgager. older" (Cornhill) can obtain the information on application to the

Martin (Liverpool).—The case of Toll e. Lee was tried on the 30th March, 1849, before Lord Deuman, at the Bodmin Assizes; the motion for a new trial was argued in the Court of Exchequer before Barons Alderson, Parke, Rolle, and Platt—the rule was refused. An account of the trial will be found in our Journal of the 30th June; and on the 21st of July we published legal form of notice and deeds of transfer.

ANGLO-CALIFORNIAN GOLD MINING AND DREDGING COMPANY.—We have received a communication from Cavendian Stuart Rumbold, Bart., in reference to the remarks in last week's Journal—the length of which, and the lateness of its arrival, prevents its appearance in this week's Journal.

* It is particularly requested that all communications may be addressed-TO THE EDITOR,

Mining Journal Office,

And Post-office orders made payable to Wm. Salmon Mansell, as acting for the propriete

THE MINING JOURNAL Mailway and Commercial Sagette.

LONDON, NOVEMBER 2, 1850

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other paris of London.

The interest manifested on the subject of a MINING EXCHANGE continues unabated, as the various articles and communications in the daily journals abundantly show. Since our last publication further progress has been made in the establishment of a market for further progress has been made in the establishment of a market for mining business, and the regulations and arrangements for its proper management may now be said to be definitively settled. We hall with much satisfaction these indications of a determination to supply a want, and remedy an evil, which has long been seriously felt and deplored. The body of gentlemen by whom the subject has been so energetically taken up very fairly embody, as we believe, the sentiments of the mining world; and considering the onerous nature of their task, they should have credit for honest purposes and intentions, in attempting to carry out a good design, until clear reason is seen for coming to a less favourable conclusion.

We adhere, upon mature reflection, to the opinion we expressed

We adhere, upon mature reflection, to the opinion we expressed last week, that the Stock Exchange is not the proper focus for the carrying out of mining business. The peculiar features of mining property are opposed to its being made the subject of Stock Exchange speculation. The fluctuations so much commented on by some persons, and deemed by others positive proof of trickery and fr are in fact one of the essential elements of mining affairs. By alteration in the productiveness of a lode, or some other unlooked for event, the shares may for a time become comparatively valueless, for event, the shares may for a time become comparatively valueless, although another change in the aspect may render it far more valuable. It appear to us unquestionable that the negotiation of property, subject to so many incidents and changes, is better left in the hands of those whose "speciality" it is, and who have given it the study and attention it imperatively requires. Until we are satisfied that the parties who are now engaged in establishing a Mining Exchange are unable, through internal bickerings and dissensions, to accomplish their object, we shall be most reluctant to fall back upon an application to the Stock Exchange, which, as far as the interests of mining brokers and agents are concerned is about as suicidal an application to the stock Exchange, which, as far as the interests of mining brokers and agents are concerned, is about as suicidal as can be conceived; although such decision was arrived at, but which, we believe, will be admitted to have been determined, in the absence of the leading agents, or parties connected with the mining f the leading agents, or parties connected with But this is a result which need not occur. interests. Only let the plan of a separate mining arena be carried out with judgment and vigour, and we cannot doubt of its obtaining the sanction and support of the great body immediately engaged in mining affairs, while that of the public will necessarily follow. The issue, in truth, is with

of the public will necessarily follow. The issue, in truth, is with the brokers themselves; and unless they desire to see themselves swamped, or deprived of their legitimate influence in mining matters, they will supersede the necessity for continued agitation on this subject, by the speedy formation of a "mining market" of their own.

We are not insensible, however, of the great influence that will probably be used to achieve the transfer of mining business to the Stock Exchange, nor are we surprised that the tone of the press should, for the most part, be favourable to it, seeing that the peculiarities and results of mining operations are usually overlooked in the discussion of this question. Our objection to such transfer is, that it will not meet the requirements of the case—that the effect will be to take mining negotiations out of the hands of those who are really conversant with them, and place them in the hands of

men whose attention is devoted to other matters; and last, but not least, in importance, that the public, by the regulations of the Stock Exchange, would be excluded altogether, and so far be in a worse position than before. If the object is to obtain a better guarantee of the good faith of the brokers in their various reports and transactions—who have, by the way, been made to bear a load of unjust imputations, in order to bolster up the scheme of a transfer to the Stock Exchange—no good reason can be alleged why that should not be most satisfactorily effected in a new Mining Exchange, whose authorised list of quotations would, we have reason to believe, as faithfully record the business actually done as any that might be issued from Capel-court. The mining world is large enough and strong enough to transact its own business; and while frankly admitting the absolute necessity of an open market, we cannot help thinking that it would be an act of gross folly to permit the main direction of its affairs to pass into other hands.

Before lending too willing an ear to the representations of those who seek to make the Stock Exchange the sphere of mining transactions, it would be well to consider whether as much will be gained in absolute purity as is constantly assumed. We had imagined that the locale was not quite so much in the odour of sanctity as to encourage the belief of any extraordinary amount of integrity to be expected as regards the doings therein. No doubt the members of the Stock Exchange are belied when it is affirmed that the gambling spirit is the predominant one in that celebrated arena, and that jobbing of every shade and gradation forms the basis of its dealings. But if sof belied in this particular, it behoves not only mining brokers and agents, but also that portion of the public who are interested in fair and straightforward conduct, to reflect before they arrive at the conclusion that the value of mining shares would be so much better ascertained on the Stock Exchange than elsewhere. That there

Since writing the foregoing, a meeting of the members of the pro-osed institution was held at the offices of Messrs. Coope, Browne, and Kingdom, King's Arms-yard, yesterday evening, when the rules and regulations under which the establishment was to be subjected were submitted and discussed, and which appear in our advertising columns. The meeting was well attended by parties interested in mining adventures, and the result gave general satisfaction.

Whatever may be the policy which has influenced the present administration of the Asturian Company in declining the discussion of the charges advanced by the liquidators, it is clear that the party attached to the latter are not disposed to shirk the question. Our correspondent, whose letter will be found in another column, has been as good as his word, and sent us a heap of documents as vouchers. It would have been desirable that such a mass of papers had reached us at an earlier period, when the leisure of the long vacation might have permitted a perusal, in the absence of more interesting matter; but even now we shall not evade the task of patiently examining a case where the questions to be considered are of great importance, as affecting principles involved in other cases, for which the proceedings here may form a precedent. We defer any discussion of the legal points; for we find that it is resolved to earry this case before the Court; and we may expect to hear of the result of the petition, which stands over from last Term, early next week, as Monday will be the petition-day for Sir K. Bruce's Court.

It is with pain we contemplate such an unfortunate issue to the proceedings of this ill-fated company. Without meaning to prejudge the case, we may say that, from what we have seen of the facts, it appears to be one of extreme culpability on the part of the promoters and directors; and that not in an isolated instance of misconduct, but perseveringly they appear in the same character throughout the whole of the piece. To cover fraud—we wish we could use a milder term—mismangement, and incompetence, a succession of deliusive statements and promises have been held out to the shareholders at each successive stage of the company's progress. The bulk of the proprietors must be the friends, or obsequious servants, of the directors, when they leave them their confidence one hour beyond the first announcement of misconduct—worse than many crimes for which hundreds are made outcasts from society. What is it to the s

we find the investigators shut out, and charges distinctly and openly made answered by such flimsy excuses as that to which our correspondent alludes. "Convenience of entry," forsooth! What a monstrous absurdity to allege that any convenience should cover such an anomaly as a payment of directors' fees to a lady!

There is one calculation in the mind of all parties having the command of public funds, which seems to actuate the directors—that weight of purse will gain the day. We have heard in more than one independent quarter that no expense will be spared, and that other means, besides legal resistance, will be employed to frustrate the opposition in their endeavours to obtain redress. This is not the language, nor are these the measures, of honest and innocent men. If this be the game, we must certainly encourage the opposition to persevere in their efforts to bring to justice persons who play upon the company's funds for their own purposes, and slink away from their responsibility. Under such circumstances, we must admit the opposition have just grounds for refusing further connection with such parties. If there be any independent share holders amongst that great majority which has been induced to give a blind credence to the promises of the directors, we trust that they will take care to throw the ones of expenses on the proper parties.

Of this, however, we have little fear; for it is probable that, as the ge-

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neral principles of the late Chancellor COTTENHAM have been affirmed in most of the recent decisions of the House of Lords, his obiter dictum in the Universal Salvage Company (Lord MASSFIELD'S case) will be confirmed, and that the due measure of justice will be meted out between the parties in winding-up cases, according to their respective merits or demerits, which must mean that delinquents will be dealt with as they deserve.

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Much and frequent has been the talk about the formation of new smelting companies, and improvements in that art, so as to protect us both from the foreigner and our colonists. Numberless patents have been taken out from time to time, under different heads, such as "improvements in smelting copper ores," "improved process of smelting," &c., yet we hear of none of these so-called improvements being of any practical utility, so that, for all purposes, we must suppose the old Swansea method to be the best. Some few years aince, a smelting-work was established not many miles from this city; this was under a patent process, which was to produce copper at a much cheaper rate, and in less time, than it could be done at Swansea. The works were established, and supplied with carbonates from Australia and elsewhere. For some time the works progressed satisfactorily, and were enabled to deliver copper much earlier than any of the Welsh works. Any one practically acquainted with smelting might have known this, as the genorality of carbonates being of a higher per centage than regulus from the ore furnace, and differently chemically composed, can be sent to the metal furnace, without going through other preparatory processes. We now understand that these works, which were abandoned owing to a bankruptcy, are now about to be resumed; and the first operations which they are to commence upon is the reduction of the slags left by the old concern. This, then, appears to be the value of some of your patent processes; ore can be smelted, so as to make early returns, but at such a loss that the slags are worthy of being resmelted! To reduce these, sulphurets of a low per centage of copper are necessary, or ores containing simply iron pyrites (vulgo, mundic) are required. Had this patent process been investigated by practical men, there is no doubt that the waste of capital which has ensued would have been obviated, and a fair and open market been given to the miner. No smelting-works should be established solely with a view of smelt

THE PATENT VOLTAIC LIGHT.—Under the more appropriate designation of voltaic, the electric light is about to be presented to the public, by Mr. Allman (an abstract of whose specification we gave on the 3ist of March, 1849), in the first practical illustration of its use that we have heard of. We have been invited to attend this evening at the Polytechnic Institution, Regent street, to witness the first public exhibition of the voltaic light, as permanently applied by way of substitute for gas, or other means, of artifical illumination. This light having been exhibited by Mr. Staite and others, we shall explain the means employed under Allman's patent, as distinguishing it from its predecessors. Independent mechanism has been in this country always the agent for regulating the electrodes in the several plans for obtaining constant light from electricity. Several of these machines have had an indirect control by the instrumentality of induced magnets within the influence of the current, as in Staite's patent; whilst others have no connection whatever with the electrogalyanic action, as in Le Molt's. The only case in which we have heard of the application of the current in the direct regulation of the electrodes was by a plan of M. Archereau, of Paris, which we believe be has abandoned. Mr. Allman says—"Accident, fluctuation is the electric current, estruction of the electrodes, and other causes, require alteration or adjustment in the relative positions of the electrodes. No mechanism can do this. The only means is by making the voltaic current itself, which is sensitive to all such causes, effect this adjustment by one of its six dynamic effects without mechanism—that is, the electric current producing the light, at the same time passing through the lamp, causes one of the preces of carbon, from which the light is produced, to move when any of the causes above enumerated require it. There are also arrangements by which the electric current can induce motion—for instance, if it circulates round a magnet, the magne THE PATENT VOLTAIC LIGHT.—Under the more appropriate designation of

COAL IN THE INDIAN ARCHIPELAGO.—Some specimens of coal have been recently brought from Pontiniak, on the south-west coast of Borneo; they are in appearance and quality exactly like our Cannel coal. A native prahu has likewise brought some specimens, which are identical with the Labuan seam. The Labuan Coal Company are progressing but slowly, and are likely to have numerous competitors, native and European; among the latter may be named Mr. Miles, who formerly worked the seam at Labuan, and whose spirit and energy might be imitated with advantage by the company; more especially as the linest veins of coal, of considerable extent and undeniable quality, have been lately discovered, over which the company's monopoly does not extend, which will, no doubt, attract the attention of the enterprising and speculative.

RAILWAYS.—The Sydney papers, received yesterday, contain an account of the commencement of the first Australian railway. It is to extend from Sydney to the interior. The contract for the construction of the Calcutta experimental line has been taken by Messrs. Elmslie and Co., of London, whose tender was the lowest. The tenders for the Bombay and Tanna line (about 20 miles in length) were sent in yesterday, and will be dispatched to the London board of directors by to-day's mail. The estimated amount of compensation for the land and buildings required (which, under the company's agreement with the Court of Directors, is to be furnished by the Indian Government) is 50,0004; of this sum all but 68004, is on account of the last two miles of the line traversing the native town of Bombay, and it is considered doubtful whether the Court of Directors will consider the advantage of a city terminus over a suburban one commensurate with the increased expenditure to Government, attendant on the purchase of town property for the former.

EUROPEAN AND NORTH AMERICAN RAILWAY.—The bill for incorporation.

commensurate with the increased expenditure to Government, attendant on the purchase of town property for the former.

EUROPEAN AND NORTH AMERICAN RAILWAY.—The bill for incorporating this railway has been passed unanimously by the Legislative Assembly of Maine, and the charter is one of unusual liberality; it is to be perpetual in duration, and not subject to legislative alteration. The company will be exempt from taxation, and the stockholders not liable for the debts of the company beyond the assessments on their stock. They may organise on the subscription of \$1,000,000, and locate the line on the most practical route to the boundary of Maine in the direction of \$5.4 John's, New Brunswick. The Legislature voted \$5000 for a preliminary survey, and appointed two eminent American engineers for that purpose. Enough has been already ascertained to show that no serious engineering difficulties will be found on any part of the line from Bangor, in Maine, to Halifax or Whitehaven. The subscriptions made in Maine are to be expended in that State, and those made in the British provinces to be expended in the province where made. By a subsequent Act, it is provided that, in case the said company shall be constituted a corporation in the British provinces, the company may increase its capital stock to an amount sufficient to complete the line through the said provinces, not exceeding \$15,000,000, and that the company has a right to issue bonds, and to raise money without further legislation. Similar charters will be applied for to the Legislatures of New Brunswick and Nova Scotia, and they will be undoubtedly granted, as the project has been received with great enthusiasm by all classes in those provinces, which, it is to be hoped, will be reciprocated in this country; and that the statesman, the capitalist, and they will be been been interests of the whole world.

Value of Nexth Railwax.—The whole of the works on this line from Neath

VALEOF NEATH RAILWAY.—The whole of the works on this line from Neath to Aberdare are rapidly progressing. Great numbers of labourers are at work on every portion, and, as everything is being pushed forward with the least possible delay, it is expected that the line will be ready for opening from Aberdare to Neath in March next, or in May at the latest. The bridge over the RAILWAY CALLS.—The area of Allies and Allies are the second s

RAILWAY CALLS.—The amount falling due in November is 363,444L. In the corresponding month of last year the sum was 755,826. The total called the year amounts anow to 10,367,328L against 19,096,700L in the corresponding period of 1849.

TREATMENT OF COPPER ORES.—No. IV.

By John Myrchell, Esq., F.C.S., author of a Monual of Practical Assaying, &c. &c.

Considered in relation to their origin, the ores treated in Wales may be classed in two grand divisions. The first comprising all the native ores, especially those furnished by the Cornish, Devon, and Irish mines; the second, all the ores imported from foreign countries. Each of the seven classes contain sometimes accidentally ores of both divisions; but, in general, the native mines furnish the poorest, and the foreign the richest ores. There are very few mineral deposits in which the ore, as from the mine, gives a very high per centage of metal. It is generally submitted to a mechanical preparation—the object of which is to concentrate the greater part of the metal in the smallest possible quantity of substance. The advantage of this preparation is to considerably lessen the cost of carriage, and often of the metallurgical treatment—the inconvenience is the loss of cupreous master when the enrichment is carried beyond a certain degree. The limit of the enrichment is determined in each case by many considerations—the first of which is the expense of carriage; and it is evident that this limit should not be so nearly approached in native minerals, which have to be carried only a few miles, as of those from Australia, or the western coast of America; finally, the native ores, which are poor in metal, are generally employed in the melting, 2; whilst the rich meltings, 4 and 5, are furnished with foreign ores. From this it will be seen that the Welsh method, considered in each of its operations, has undergone, during 20 years (the commencement of the importation of foreign ores), and especially during the last 10 years, many important modifications. The lists of ore sold in Cornwall and Swanses point out in an approximate manner the quantity of copper extracted in Weles from native and foreign ores. The sales in Cornwall comprise nearly all the ores raised in that county, as well as in that of Devon. As to the ores sold at Swansea, five-sixths of the copper they contain is of foreign origin. The following table points out approximately the proportion of ores of each class furnished every week by the two great markets of the Welsh works, taken as the type of the whole: the loss of cupreous matter when the enrichment is carried beyond a cer-

Names of the Seven Classes of Ore.		s bough cornwal			s bough Swanser		ouds u ulun	TOTAL.	elizedy at bita
at familiation and a	Weight.	Copper in 1000 parts.	Total of Copper.	Weight.	Copper in 1000 parts.	Total of Copper.	Weight.	Copper in 1000 parts.	Total of Copper.
INT CLASS CALCINED In 1 for 2 2D CLASS CALCINED	549-9	0.083	45.0	170-2	0.150	25.5	720-1	0:098	70-5
In 1 for 5 3d class rough for 2	1.3	0·228 0·180	0.3	20.2	0.228 0.210	4.6 0.6	21.9 77.6	0.228 0.182	14.1
4th class , 4 5th class , 6. 6th class , 9	8·9 0·2	0.320 0.120 0.500	1.1	70·5 1·1 7·2	0.387 0.120 0.667	27·3 0 1 4·8	73·5 10·0 7·4	0.385 0.120 0.662	28·3 1·9 4·9
7th class , 4	08	0.700	0.2	1.7	0.770	1.3	3.0	0.750	1.9
Total of means	638-5	0.096	61.2	278.6	0.234	64.2	915.1	0.137	125-4

First Operation: Calcination of Sulphurous Ores with Pyritous Gangue.

— The ores in which copper exists in the state of copper pyrites, and containing less than 10 per cent. of metal, are nearly without exception submitted to this preliminary operation, because the gangue contains much iron pyrites. Prejudical matters, and especially the sulphur compounds of arsenic—such as mispickel—contribute to swell the category of ores which must be calcined, even when they have the desired per centage of copper, are free from pyritous matter, other than mispickel, and could be conveniently employed in the rough state in the fusion furnace. The fuel employed in heating the calciners is all small, and is composed of 72 parts of anthracite and 28 of coal. The small anthracite employed as the base of all the fuel used in the treatment of copper ores in Swansea, is the non-exportable residue of the celebrated Welsh coal. Considered independently of earthy matters, it gives by ignition in a close vessel from 80 to 85 per cent. of fixed carbon. Although more mixed with earthy matter than the lump anthracite, it contains but a moderate proportion, generally between 5 and 10 per cent. The following table shows the chemical composition of five varieties, simultaneously employed, and often after partial mixture:—

Composition of Five Varieties of Anthracite.

new him	obtain	ed Cart	listil-	R	BSULT		E DISTIL		or 1000	
Name		of 1000			FIX	ED HAT	TER.			GASEOUS GATTER.
Variety.		om Ast		Carbon.		Ash.		Total.	d toss	
1st variety	******	0.800		0.742		0.073		0.815		0.185
2d ditto	*****	0.801		0.685		0.145		0.830		0.170
3d ditto		0.804		0.765		0.049	*****	0.814		0.186
4th ditto		0.842		0.800		0.050	*****	0.850	** ** **	0.150
5th ditto		0.823		0.813	****	0.047	*** **	0.860	,	0.140
Mean		0.820		0.761		0.078		0.834		0.166

The small anthracite, however, employed in the calciners is not quite pure as that just mentioned, as the heat is not required to be so great in the other furnaces. Five varieties of this anthracite were analysed,

Whilst on the subject of fuel, it may be as well to mention the composition of the stone coal employed in lieu of charcoal, in certain operations, as well as that of the green wood employed in toughening.

The stone coal employed is in lumps, possessing a fine lustre, and a concholdal fracture, containing but a small quantity of earthy matter, and absolutely free from iron pyrites. Two samples, taken from different heaps, but from the same mine, gave the following results:—

Color and a management of the color of the c	st Sample. 2d Sample.
Fixed carbon	
Ash (silica and alumina)	. 0.014 0.018
Volatile matter	. 0.090 0.090
	1.000
Fixed carbon ash deducted	
a labor con both tion doubteted	A To enough our hard advertisance of the

ted in the tables. The management of the fire in general is common to all Welsh furnaces

The management of the fire in general is common to all Welsh furnaces, but there are certain special methods common to the calciners alone.

The basis of the method of firing is peculiar, as by it the Welsh smelters are enabled to burn exclusively small coal, and especially dry pulverulegact coals, which before could not be employed in calcining furnaces. This is a difficult problem, as the number of useless experiments made on the continent to apply this particular kind of fuel to metallurgical purposes, by its previous conversion into gas, will testify. The difficulty is still greater with Welsh coal, which gives, by distillation, less gas than the lignites employed in experiments of this kind in Germany. These anthracites, by the ordinary spontaneous combustion on bars, give a scarcely perceptible flame, and, in consequence, are completely unfit for heating large reverberatory furnaces, especially the calciners, in which the flame must reach to the flues 20 ft. and upwards from the fuel.

The simple and ingenious discovery of the Welsh smelters consists in the employment of an artificial grate, differing essentially from the ordinary grate, and in the mode in which the air is made to react on the fuel. The grate of each furnace is formed of earthy matters, furnished by the fuel itself; this substance is called "clinker." This earthy grate is carefully fashioned at the expense of the half-softened ash, which continually forms in the hearth. These ashes, which, without a suitable amount of care bestowed by the workman, would completely close the draft, are transformed under his direction, and by their spontaneous agglomeration,

into a perfect grate, which neither air nor fire can alter, and through which passes the quantity of air necessary for each stage of the operation. The clinker immediately in contact with the lower part of the operation. The clinker immediately in contact with the lower part of the operation. The clinker is a carried to an extremely high temperature, in consequence of the great radiation from the adjoining brickwork; and the mass of superincumbent fuel whose cubic capacity is very considerable, it weighing above half a tone It also contains, in its pasty state, a considerable number of fragments of coal, which, continuing to burn, develope, in contact with the earthy matter, a very great amount of heat.

The fuel ought to be so chosen that, under the influence of this high temperature, the mixture of ash should give a substance which will sufficiently soften by the heat employed to give a solid agglomerate, and sufficiently refractory as not to fuse, and run down in drops into the ash-pit. The attention of the smelters is much given to this important point, their daily work itself showing them the mixtures which produce the best effect with the least amount of labour. This detail, which at first might appear insignificant, is, nevertheless, of the greatest importance. The great experience accumulated under this head in the Welsh smelting-works is one of the principal causes of their success.

The clinker is a less heterogeneous matter than might be supposed, only considering its origin, and without regard to the time (10 or 12 hours), the principal constituents have to react one each other. A sample of good quality presented all the appearance of the cinder obtained during the securing of a blast-furnace in which iron is smelted by charcoal. The prevailing substance, however, is general in a grey or brown blebby glass, filled with numerous cavities, with smooth and well-fused surfaces. Here and there are small carbonaceous particles, fragments of earthy matters, imperfectly fused in the mass, grains of sulphure

Silica	0.013
orresponding to—	
Silicate of peroxide of iron protoxide of ditto carrhy oxides Sulphuret of iron Carbon	0.414 0.451 0.023
Carbon	0 012 - 1 010

This composition corresponds very nearly to that of a bi-silicate, the oxygen of the bases being to that of the silica as 14: 27.

[To be continued in next resek's Mining Journal.]

THE CARDIGANSHIRE MINES.

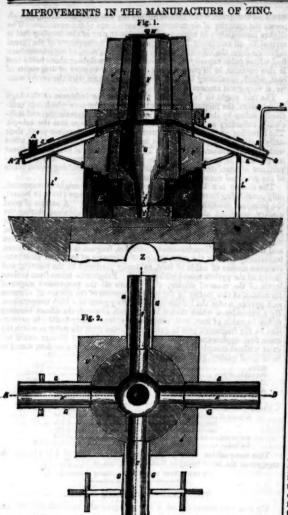
Up to a very recent period it was the generally received opinion, and it is the fashion now occasionally to maintain, that the ore in this county does not hold to any depth. No hypothesis can be more absurd, even in a theoretical point of view. The mineral deposit is situated pretty nearly in the middle of a grauwacke and clay-slate basin, extending superficially

a theoretical point of view. The mineral deposit is situated pretty nearly in the middle of a grauwacke and clay-slate basin, extending superficially from Cader Idris, in Merionethshire, on the north-east, to the Precelly Mountain, in Pembrokeshire, on the south-west, a breadth of about sixty miles. Both Cader Idris and the Precelly range are alike constituted of porphyritic greenstone, being, it would appear, merely the outcropping heads of that formation; and if at some remote time the intermediate clay-slate shall be so deeply penetrated as to reach its point of junction with the next series, the underlying mass will most probably be found to be a bed of the Cader Idris and Precelly rocks—a species of greenstone sometimes called hornblende, by the Germans hornblendgestein, by which is meant the primitive trap of the Wernerian school. When, indeed, the adventurous miner shall have arrived at a depth which will enable him to make this discovery, it may be expected that any further prosecutions of his workings will be profitless, for this species is not in itself very favourable for rich deposits of ore; though Humboldt, when speaking of it, if he means the same thing, observes that it contains very ancient argentiferous veins, but when or where this is to happen is beyond all calendation. The great mining districts of Cornwall are principally situated in a portion of this grauwacke series, or primary clay-sla te, provincially called killae. It there contains those veins of tin and copper which, by their extraordinary produce, have constituted the principal wealth of the county. It rests immediately on the granite, and it is chiefly at or near the junction of the two rocks that the greatest mines are situated. What, then, can be said against a similar condition of things in Cardigaushire? If similar results are produced by similar causes, there cannot be the slightest reason for doubting that the ore will hold all through the superimposed clay-slate, its richest portion being, perhaps, at its greatest depth.

T said that it was the consequence of the bottoms having become poor; and, if it had, a reason would have been given only for supposing that a poorer floor of ground had temporarily come in; for within had, a mile to the east, at the foot of the hill, is Cwm Sebon—a mine whose surface is as deep as, if not deeper, than these bottoms of Daren, and the bottom of whose engine-shaft is down 60 or 70 fathoms deeper still, in a very good

whose engine-shaft is down 60 or 70 fathoms deeper still, in a very good course of ore.

Little, therefore, can be said with any semblance of justice against either the depth or length of these deposits; in fact, it is declared by the very best living authority with regard to Daren, the example here adduced, that its general appearance holds out a prospect of work highly profitable for, at least, another century, or, more properly speaking, until the ingenity of man shall be taxed to invent machinery more efficacious than any now known to follow bodies of ore in depth. Such is the opinion of practical men, and the same will apply to the Lisburne, Cwmsymlog, Esgair Myws, Allt-y-Crib, Goginan, and, in short, to all the great old mines of the county. Notwithstanding all this, there are some croakers who have endured to predict, and profess to believe in, other and more tragical terminations; in fact, so lugubrious are their ideas, and so cloudy are their views with regard to posterity, that they seem to have made up their minds, as far as Cardiganshire is concerned, that future generations are to live without any metal at all. This would be a bad job for our offspring; for ourselves it is some consolation to know, for a certainty, that there is already discovered much more than will last our lifetime.



ication enrolled October 20, 1850.] [Patent dated April 20, 1850. Specif

The general object of this invention is to do away with the troubles and expensive processes of assorting, pounding, and crushing, now ordinarily followed, in order to the extraction of zinc from its ores; and this is effected by a method of direct reduction. We extract the following description o the apparatus employed, and of the peculiar processes followed in conne tion therewith, from the patentee's specification:-

Fig. 1 is a vertical section of the apparatus on the line AD of fig. 2, which is a horizontal section on the (dotted) line A, B, C, D of fig. 1. C is the hearth of the furnace; F, F, F are the tuyères, which are three in number N is the shoot; U the chamber of the furnace. So far the parts of the structure are very similar to those of a small blast furnace. At IK the upper part of the chamber, U, is suddenly contracted, so as to form a neck, V, or narrow passage, between the upper and lower parts of the furnace. The charge, as it falls through this neck, leaves necessarily a vacant annular space at x x, between it and the sides of the furnace, where the volatilizable matters may collect. Ff are four rectangular passages, formed of cast or sheet-iron, which lead off at right angles, and in an inclined direction from the annular space, x x, and each passage is encased for a certain distance within a chamber, G, through which cold water is kept continually circulating, flowing in from the tube, P, Q, R, and escaping through the pipe, S S. At the lower end of each of the rectangular passages there is a tubular passage, A, by which the uncondensed gases of the furnace are carried off to different points, to be employed for heating purposes, as hereafter explained; and each passage is provided at its lower end with a sliding door, A', which may be closed or opened as required. W is a lid or cover by which the furnace is closed at top, and which fits into a groove made for it, so that there may be no escape of the gases at that part. All the interior parts of the furnace are formed of fire-brick, with an outer wall or casing, V', which may be made of ordinary brick; and between the outer and inner walls there is left a space, ZZ, which is filled with some substance which is a bad conducter of heat. HH are strengthening plates of cast-iron, which are inserted into the lower brickwork, V', immediately over the tuyère openings, E' E'. L' are cast-iron frames, which carry the passages, F F, and cold-water chamber, G.

The mode of operating with the apparatus is as follows:—After the furnace has been built, it is left to dry; then a fire is kindled on the hearth, and kept up for about three weeks by supplies of fuel (by preference coke), introduc N is the shoot; U the chamber of the furnace. So far the parts of the structure are very similar to those of a small blast furnace. At IK the

such a state as not to produce any oxidating matter during the formation of the slag. For this reason, when the nature of the ore requires the employment of lime as a flux, the lime should be used in a caustic state, and not as a carbonate; and for the same reason it is advisable to use a blast of dry air—that is to say, air deprived of aqueous vapour. The products of the furnace are, in the first place, the gases arising from the combustion of the fuel; secondly, the vapours of zine; thirdly, the non-volatilizable matters, consisting of scoree or slag, and of reduced metallic substances of greater density than the zine. The throat of the furnace being closed, "the gases arising from the combustion of the fuel" pass off through the passages, A¹, and are made use of either for the purpose of heating the boiler of the steam-engine which drives the blowing-machine, or to burn lime when used for a flux, or to melt the zine which is carried over in a state of vapour, or to dry and roast the ores. The "vapours of zine" are condensed in the passages, F F, and may be easily withdrawn therefrom by means of a rake (the rectangular form of the passages, F F, affording great facilities for this purpose), after which they are reduced and formed into ingots or bars. The "non-volatilized" or residual matters which collect on the sole or hearth of the furnace, are run off from time to time, great facilities for this into ingots or bars. collect on the sole or on the sole or hearth of the furnace, are run off from time to time

according as they accumulate.

The ores containing zine may be divided into two classes; firstly, those in a state of oxide, either free or combined with carbonic or silicic acid; secondly, those containing sulphuret of zinc (blende). When the ores are of the first class (oxides), they are first dried, and if they contain a car-

bonate, they are subjected to a roasting process. The flux employed for the testiment of ones of this class is quick-lines, the quantity of which varies to the sufficient for the formation of a bidlicate, or, as it is commonly called, a good alag. When the ores contain any other metals, such as iron or cled, these metals are reduced to the metallic state, when they collect on the sole of the furmace, where they arrange themselves in different strata, according to their respective densities, and may be drawn off separately. When they can be such a strong the second class (blende), they are treated in one of two ways either by roasting, which brings them into the state of oxide, which oxide is them mixed with a little damp clay, and formed into blocks, which, after being dried, are treated in the manner before described; or (which is considered the preferable way), these sulphurous ores are mixed with a quantity of iron ore, so that when the metals are issued the iron shall combine with the sulphur, and set the sine at liberty.

The flux employed in this case is quick-lines and if the ore contain with the sulphur, and set the sine at liberty.

The flux employed in one of the sulphur and set of the contained both in the sine and iron ores. The iron ore best suited for this purpose is that containing sine, but in too small a quantity to be treated eparately as a zinc ore. When, however, the iron ore contains water or carbonic acid, it is necessary that these should be expelled by roasting, in order that no substance susceptible of oxydizing the zinc may be introduced into the furnace. If the iron core contain to great a quantity of oxidating matter, then it is preferable to expel the sulphur from the zinc ore, by means of cast-iron or malleable iron. This plan presents the advantage of driving off the whole of the substances capable of re-oxidizing the zinc which has been reduced. When a sulphured of iron, sulphured to proper the contraints of the contraints of the contraints of the contraints of the contraints of

furnace and blowing apparatus, without previous assorting, pounding, or crushing.

2. The employment of a smelting furnace for this purpose of the peculiar description represented in the engravings, and before described—that is to say, of a furnace having a narrow neck or passage, by the descent through which of the charge an annular space is formed around it in the top or crown of the furnace, where the vapour of zinc collects, but is prevented by the heat from condensing; having also passages of a rectilineal form, through which the vapours of zinc pass off to be condensed (a form which allows of the rake traversing, and completely clearing the passages from end to end); and, further, condensing chambers, through which a current of cold water is kept continually flowing, in order to aid the process of condensation.

of condensation.

3. The avoidance of introducing into the furnace any substance capable of re-oxidising the zinc produced, which is effected by the selection of quick lime as a flux, by the drying and roasting of the hydrated and carbonated ores of zinc and iron, by the drying (in certain cases) by means of hot blast, and by the employment of cast or malleable iron, for the purpose of combining with and extracting the sulphur contained in sulphuretted zinc ores.

4. The direct treatment of blende which has not been roasted, and the reduction thereof by means of the iron employed—that is, either the cast or malleable iron, or the iron produced by the ore, which becomes converted into cast-iron, or sulphuret of iron, in the furnace itself.

5. The peculiar method of treating sulphuretted, or arseniuretted ores of lead and copper, containing zinc, whereby the zinc is separated from these other metals, and obtained in a metallic state.

6. The method of turning the zinc contained in ores of iron to good ac-

6. The method of turning the zine contained in ores of iron to good acount, without injuring the latter metal.—Mechanics' Magazine.

A VETERAN MINER. - Died, at his residence, Crellow, in Stithians, J. Martin, Esq., aged 80 years. He was one of the oldest, and most respected of the mine agents and adventurers of Cornwall, having been engaged in the former capacity upwards of half a century. It was mainly owing to Capt. Martin's perseverance and industry that Tresavean Mine was not abandoned nearly 40 years ago, when the chief part of the adventurers had resigned their shares as worthless. Capt. Martin fearlessly stood forth as the advocate for further operations in this interesting locality. As a shareholder he met abundant reward, for shortly afterwards Tresavean adventurers realised as profit in one year alone, the unexampled sum of more than 60,000l. Capt. Martin was raised by Providence from the humble rank of life—the working class, but he always remembered his origin, and the rock from which he was hewn. He delighted to give labour to the thousand of miners in his neighbourhood. The widows and the fatherless have often been relieved by his charity. Capt. Martin's character was marked with some singularities, and no doubt, with some foibles, but his firm attachment to principle, pure benevolence, unshaken constancy, and indefatigable perseverance, may properly be held up to the view of all per-Esq., aged 80 years. He was one of the oldest, and most respected of the but his firm attachment to principle, pure benevolence, unshaken constant and indefatigable perseverance, may properly be held up to the view of all persons occuping important stations, or engaged in useful enterprises, as qualitinot less to be imitated than admired as a character which will stand distinguished among those qui sui memores alios fecere merendo.

PENALTER FOR CONDUCTION.

PENALTIES FOR OVERCHARGES BY RAILWAY COMPANIES.—The Commissioners of Inland Revenue have fued the Dundee and Arbroath Railway in 100l. for overcharges on Parliamentary or third-class passengers, besides taxing the whole of the money paid by the passengers at the rate of 5 per cent., as if it had been paid by first and second-class passengers. Similar overcharges made by the Stirlingshire Midland Junction are to be dealt with in the same way, under the General Railway Act.

A DESPERTER WOUND THE LEGGESTER WAY ARREST TOWN TO THE LEGGESTER WOUND THE LEGGESTER WAY.

A DESPREATE WOUND IN THE LEG CURED BY HOLLOWAY'S OINTMENT AND PRILS.—Patrick Leinster, residing near Carrack-on-Shannon, injured his leg about two years ago with a plough, which caused a most formidable wound, that spread over the leg to an alarming extent, so that he could not put his foot to the ground, and, in despite of all his efforts and the various remedies he used, it would not heal. In this very bad state he applied some of Holloway's ointment to it, and regularly took the pills; this treatment had such an effect on the wound that in little more than a month his leg was perfectly cared.—Sold by all druggists and at Professor Holloway's establishment, 244 Strand, London. A DESPERATE WOUND IN THE LEG CURED BY HOLLOWAY'S OINTMENT AND

Original Correspondence.

HEMATITIC ORES OF IRON.

SIR,—In reply to your correspondent, "W.," the term hematite, or kidney ore, strictly applied, denotes only such varieties of peroxide of iron as are found crystallised in hemispherical groups, giving the mass a close mblance to kidneys-whence the name. The term, however, for want resemblance to kidneys—whence the name. The term, nowever, nor want of a more convenient designation, is often applied to all red ores of iron, it is which the peroxide is so free from earthy matter as to aggregate in compact metallic masses, although the true hematitic crystallisation may be anhetisted by a different character. It is not uncommon to hear the black finishe protoxite, which is often found mingled in veins of proxide, entitled black hematite, though no form mingled in veins of proxide, entitled black hematite, though no form mingled in veins of proxide, entitled black hematite, though no form of the true crystallisation are obtained from the Lancashirs and Cumberfand mines. The masses, no being fractured, exhibit a radial crystallisation from the centre of deposition to the curved surface, and in the same convergent direction; these oras, and the best ores of the kind, are stratified in the carboniferous limestone, being more free from sulphur, armein, &c., than those deposited in the primary rocks ore of the kind, are stratified in the carboniferous limestone is productive in metallic sulphurest, the character of the ore is much altered; and both in this country and on the continus is containated with sulphurests of lead, site, to have a reference to the thickness and elevation of the carboniferous limestone. In the Forest of Dean, where the limestone bears a large proportion to the thickness of the coal measures, there is a minortant deposit, but in the eastern division of the Webb coal-field, where the deposit of the coal measures hears a much larger proportion to the limestone, there is no called deposit of the coal measures hears a much larger proportion to the limestone, there is a minor and deposite of the coal measures hears a much larger proportion to the limestone, where the proposition is the proposition to the limestone, there is no called the proposition of the coal measures hears a much larger proportion to the limestone, the proposition of the coal measures hears and the propositio of a more convenient designation, is often applied to all red ores of iron, in which the peroxide is so free from earthy matter as to aggregate in compact metallic masses, although the true hematitic crystallisation may be substituted by a different character. It is not uncommon to hear the

TERRESTRIAL MAGNETISM.

Sir,—It is quite true that Mr. Hopkins has not entered into any speculative explanation of the nature or origin of the magnetic current passing through the centre of the earth from the north to the south pole, but neither was it necessary he should (though it is strange to assert, as Mr. Lake does, that he gives no explanation) embark in such a theory. His object is to adduce the principal facts which indicate the existence of the current. The main grounds are three—First, the fact to which all geological research bears testimony; that the masses of the crust of the earth have a uniform arrangement, such as would be imparted by a magnetic current acting through the surface from south to north. Secondly, the fact established by observations, that the land has a movement northward, which such a current would induce. And, thirdly, that that the continents of the northern hemisphere display the remains of Australian organisation, whereas, on the reverse, the equatorial and southern latitudes contain no relics of life indigenous to the north. The inference from these facts he supports by a multitude of coincident proofs that all our continents have had their origin at the southern pole, and are preceeding to their termination at the northern. As a consequence, he dismissed the theory of igneous solution, of which we know a great deal, is fully adequate to account for all appearances, without recourse to that flery and forlorn hope of science. Now, though the practical purpose (and a practical purpose ought to be a part of every good work) of Mr. Hopkins's work be to improve the science of mining, it surely, if it establishes so grand a system of facts, does a great more. If his theory be good for the objects of mining, that is much more than a presumption that it is good in se. Mining has pierced and overturned many geological theories; but hitherto geology has opened very few good mines, and a theory which the results of practical mining confirm, throwing a certain light before its steps, which never was before obt SIR,-It is quite true that Mr. Hopkins has not entered into any specu-

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SIR,—M sult, that fi neither lost is a mere r chemical light and h developed the overthr another in through the not seem to getter of fir Mr. Cox action is ref

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reference;" and, therefo neans that mical action due to chem Son rogen. Son combustion, ing this to b here also a l When France not also pro the first wh experiment Had Frankl not find sucl posed that a of the earth

Lectures on would "ele name of an aculiar and s Manual of Caution—" I rally suggest caution—" I rally suggest nature of th main so."

On your c to the person person who presented by Mr. Hopkins could exist, it is evident the difficulty of a conception can form no argument against facts. These must be established remorselessly, however obstinate to account for. Nevertheless, I should think that, with Mr. Lake's knowledge of the subject, he would not find it impossible to imagine circumstances capable of producing the central magnet. Some of his attempts seem quite as arduous. Baron Reichenbach, whose curious researches in magnetism have thrown light upon many mysteries, not excepting even the old divining red, the testimony to whose eccentricities, like many other phenomena which they cannot explain, men have chosen to measure by the fractional limit of their knowledge, rather than by their boundless scope of ignorance, maintains that a magnetic current circulates through the earth from the north to the south pole, by a network of iron in a structure analogous to that of meteorites; but whether this or any other supposition be received, it will not do to dismiss the evidences of a current on the surface from south to north, or refute them by the experimental workings of an artificial globe, because we have not attained a facile and undenlable explanation of the cause of an interior current from north to south.

The conclusion of Dr. Faraday, that the magnetic currents circulate from the equator to each pole, is based on the supposition that the rotation of the earth is the sole cause of those currents; and, therefore, this conclusion must fail, if the rotation of the earth should prove to be an effect, rather than a cause, of its magnetic condition. It is far from my object to disparage the invaluable geological researches of the past half century; they have paved and prepared the road to truth. We have now to learn what is the spirit which informed these dry bones of science, and continues to animate the terrestrial frame.—David Musher: October 23.

PYROGEN AND LUNAR GEOLOGY.

PYROGEN AND LUNAR GEOLOGY.

Sir,—Nothing betrays more the want of sound sense and argument, as also displaying incapacity of judgment to grasp the real laws of the terrestrial system, than far-fetched words and continued reference to objects which are beyond our reach. Mr. Lake carries his fancy to the Milky Way to determine the cause of the variation of the magnetic needle! Mr. Nasmyth's imagination leads him to believe that it is easier to study the geology of the moon than the vrinkles of his own habitation! Your readers, as well as myself, must feel greatly indebted to your very talented and eloquent correspondent, Mr. Mushet, for his masterly letters, and more especially those in which he endeavours to check, by the soundness of his arguments, the metaphysical absurdities which occupy too much space in the scientific journals of the day.

Those who have read Mr. Hopkins's work will remember the following very just observations:—" If we would speculate to any useful purpose on a former state of our globe, and on the succession of events which from time to time have changed the condition and form of its surface, and still causing incessant changes, we must confine our inquiries to the laws and effects of terrestrial physics, and not attempt to solve the problems by reference to celestial objects, of which we know nothing beyond their movements. If we differ so materially on those points which we can handle, it is not probable that we could decide by referring to objects so much beyond our reach."—R. G. T.: Uterston, Oct. 24.

ON PYROGEN.

ON PYROGEN.

Sir.—Notwithstanding Mr. Lake's explanation, in your last, of his meaning of pyrogen, &c., I must, nevertheless, state that I am still in the dark with respect to it and his principles. I have no doubt Mr. Lake's investigations are a source of gratification to himself, but I regret to state, that they are to me perfectly unintelligible as yet. It appears evident from the remarks in his reply to me, that he has not perused Mr. Hopkins's work on Terrestrial Magnetism. Mr. Hopkins plainly demonstrates the facts in chapters 1 and 2, and establishes his theory thereon. He allows no loose assumptions to creep into his arguments. The most important point of the question is the fact, that we can predict all effects connected with magnetism, whether its statics or its electrodynamics; therefore, at all events, it is as yet the only theory by which we can determine such questions, and its great simplicity renders it intelligible to the youngest intellect. I have actually seen a little boy solving the various positions and the effects of several magnets in experimenting on a table by Mr. Hopkins's theory, and as regards myself, it is the only one I know of by which such important questions can be determined, whether at sea, in the field, in the mine, or in the laboratory. Barlow's notions of equatorial currents are all but exploded. Prof. Faraday's most elaborate researches have thrown quite a new light on the magnetic axis, &c. I recommend Mr. Lake to study some of the more recent investigations, which, I think, will ealighten him very considerably, and, perhaps, tend to assist him in his inquiries. I shall conclude this, by quoting, as appropriate to the subject, a few words from Mr. E. Hopkins's truly practical and scientific work:—
"Taking this simple principle as a guide, with its various consequences under different circumstances, we soon perceive that we can not only account for the various phenomena of magnetism; but, in a word, all phenomena connected with terrestrial physics, and that we are enabled

ON PYROGEN.

ON PYROGEN.

SIR,—Mr. Coxworthy is not strictly correct in stating, as a general result, that fire destroys the bond of matter. During combustion matter is neither lost nor destroyed, although a great change takes place in it. Fire is a mere name for the light and heat developed during the progress of a chemical operation, which cannot take place without the cause of the light and heat being present. The light and heat which we call fire are developed during the passage of matter from one state to another—during the overthrow of one set of chemical affinities, and the establishment of another in its room; and as this takes place chiefly, if not altogether, through the instrumentality of the electric fluid, the name "pyrogen" does not seem to be an inappropriate one for it, as the fluid is literally a begetter of fire.

not seem to be an inappropriate one for it, as the fluid is literally a begetter of fire.

Mr. Coxworthy is also incorrect in stating generally "that chemical action is referable solely to electricity, but to which 'pyrogen' can have no reference;" for pyrogen and electricity are two names for the same thing, and, therefore, what is referable to one is equally so to the other. If he means that a "begetter of fire" (pyrogen) has nothing to do with chemical action, he is equally in error; for, as we have just said, fire is itself due to chemical action, and could not exist without it; and, to use his own words, "chemical action is referable solely to electricity"—that is, pyrogen. Some tell us that the human body is in a permanent state of slow combustion, the effect of the chemical action going on within it. Assuming this to be the case, electricity, the chief agent in the chemical action, is

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tic act ich of on, rogen. Some tell us that the human body is in a permanent state of slow combustion, the effect of the chemical action going on within, it. Assuming this to be the case, electricity, the chief agent in the chemical action, is here also a begetter of fire.

When Franklin proved the identity of lightning and electricity, he did not also prove that electricity was material. He thought it was so, as did Sir I. Newton before him, but gave no demonstration of the fact. I was the first who published an experiment for the purpose, and so contrary was it to the prevailing ideas of the learned in such matters, that my first experiment was, like Franklin's, literally burked at one eminent society. Had Franklin proved the material nature of the electric fluid, we should not find such a supposition as the following concerning it:—"It is supposed that a peculiar fluid pervades the pores, if not the actual substance, of the earth, and other natural bodies"—(Prof. T. Young's Syldabus of Lectures on Natural Philosophy, Royal Institution, 1802, p. 150). Neither would "electricity" have been described in Rees' Cyclopedia as "the name of an unknown natural power, which produces a great variety of peculiar and striprising phenomena." And the late Prof. Fownes, in his Manual of Chemistry, 2d edition, page 82, would not have inserted this caution.—"It is necessary to guard against the idea which the term naturally suggests of an actual bodily transfer of something, &c. The real nature of these phenomena is entirely unknown, and may, perhaps, remain so,."

On your correspondent's principle of awarding the merit of a discovery

On your correspondent's principle of awarding the merit of a discovery of the person who first publishes an idea without proof, instead of to the casen who first experimentally proves the fact, the most extraordinary

changes would take place on this head. Franklin must no longer have the merit of proving the identity of electricity and lightning, for Winkler had asserted the fact before him. Notither was he the first to draw the fluid from the atmosphere, for it is recorded that it appeared at the points of the spears of Casar's troops whilst they were marching in Egypt; and thus we shall be led to the old-fashioned practice of ascribing great feats all to a certain individual, nameless to ears polite, or Julius Casar. Herschel must no longer be regarded as the discoverer of the planet that goes by his name, for Tycho Brahe had mapped or catalogued it centuries ago. It was likewise seen by Prof. Mayer, of Gottingen, in the year 1756, being the 964th star of his catalogue. MM, Leverrier and Adams must also cease to claim the honour of discovering Neptune, for its existence and place were proved theoretically before they turned their telescopes upon it. Ordnance-office, Portsmouth, Oct. 28.

John J. Lake.

MINERALS-THE GREAT EXHIBITION.

SIR,—The Commissioners' list of the mineral products of this country, published in last week's Journal, was evidently prepared in great haste, being deficient, as will be seen by the subjoined list of localities and products not included.—A MINERALOGIST: London, Oct. 30.

LANCASHIER—The whole district of Furness supplies the fine hæmatite iron ore, copper l lead.

HERE—Iron at Alderley Edge and Duckenfield; lead at ditto, and Peckferton-hill.

Nahure—Gold, North Molton; cobalt, Sampford & Wilsworthy; allver, Wilsworthy

CENTERSHEE—Lead, Durham Down; iron, Billon, Acton, Stone, Awre, Webney

and Tretheaven.

Hasts-lale of Wight, iron sand, copper pyrites.

MONNOUTHS-INET-Iron, Blaenavon; iead, Cefn Pwilduhill.

NORTHUMBERIAND—Zinc, Allenheads, Coalclough; molybe

ANT Tretheaven.

HANTS—Isle of Wight, iron sand, copper pyrites.

Monmouthstire—Iron, Blaenavon; lead, Cefn Pwilduhill.

Northouselaland—Zinc, Allonheads, Coalclough; molybdena, Caldewa, Hesket, and Rewmarket.

Somerestrine—Manganese, Mendip; zinc, Shipham.

Surrent Haselmere, Dunsford, Granby; iron sulphuret, Mattinghill, Rottendean, and Fenahurst.

Westmorrent Haselmere, Dunsford, Granby; iron sulphuret, Mattinghill, Rottendean, and Fenahurst.

Westmorrent Haselmere, Dunsford, Granby; iron sulphuret, Mattinghill, Rottendean, and Fenahurst.

Westmorrent Haselmere, Worker, Wastel Head; gold, ditto; isimuth, Caldbock Fell, Tungsten; molybdena, Wolftans, ditto; ironstone, Dunsfell and Shap.

Yorsshire—Zinc, Grassington Moor; copper, Middleton, Tyces.

Brektmorrent Head, Coed Cymmer.

Carranvosshire—Copper, Llamberis, Llamclidno, Dolawyr, Ormes Head, Pont-abu-Glarsyn; iron, Moel Ellon; zinc, Llangynge,

Carronamenter—Silver, Darrentstwy; zinc, Llaburne.

Dennionshire—Fron, Morthyr, Gower; lead, Gower; manganese, Gower.

Morroomenter—Iron Sand, Dee, Moneymusk, Petenwim, Aberdeen; lead, Monattru.

Arsolleme.—Antimony sulphuret, Keith.

Dumpriesmire.—Fron Sand, Dee, Moneymusk, Petenwim, Aberdeen; lead, Monattru.

Arsolleme.—Antimony sulphuret, Keith.

Dumpriesmire.—Fron Sand, Sirkhullioch.

Dumpriesmire.—Fron Sand, Sirkhullioch.

Dumpriesmire.—Honybdena, Genelg.

Lanarshire.—Molybdena, Glenelg.

Lanarshire.—Molybdena, Glenelg.

Lanarshire.—Molybdena, Glenelg.

Lanarshire.—Lead, Cliffon Mine, Tyndrum; copper, ditto; copper, ditto and Airthrie; iron, Kilsyth.

Wisonshire.—Lead, Gliffon Mine, Tyndrum; copper, ditto; copper, ditto and Airthrie; iron, Kilsyth.

Wisonshire.—Lead, Wilsonom; copper, ditto.

iron, Klisyth. Wictonesthar.—Lead, Whitehorn; copper, ditto. LEITRIM and Roscommon—Iron. Harrames.—Isla, silver and lead.—Skye, iron sand. SEETLANDS.—Copper, manganese.

FOURDRINIER'S PATENT SAFETY APPARATUS.

FOURDRINIER'S PATENT SAFETY APPARATUS.

Sin,—It is pleasing to observe, that according to the note of Mr. Four-drinier, in your Journal of the 19th inst., the colliery proprietors are becoming more practically aware of the value and utility of that gentleman's excellent invention, by forwarding daily applications for the same. Mr. Fourdrinier also states that, previous to my notice appearing relative to the breaking of the rope at the Killingworth Colliery, he had an order for the affixing of it to the cages in that pit; and as the expression "some weeks" is used, a query passed through my mind—does it take weeks to fit up the cage with this noble safeguard? If so, and the orders come in daily, we have at once to shift the responsibility and the reprehension, which has hitherto attached to the owners generally, to Mr. Fourdrinier, inasmuch as the implied complaint in his first letter was, that only between 30 and 40 collieries had adopted it. Why, if two weeks be the least implied in the term "some weeks," it will be upwards of 50 years ere such apparatus can be fitted up in the general number of pits of this country. Alas, for the poor miners! many, I am afraid, will meet a premature death before this truly valuable invention can be made generally applicable to lessen the danger to which they are continually exposed from the breaking of ropes, chains, &c., while descending, or otherwise, the pits in which they have to labour, to procure that mineral so requisite to the healthy commercial prosperity of this country. Sir, being most anxious that as little delay as possible should take place in the execution of an order for such apparatus, and it being, no doubt, Mr. Fourdrinier's desire, as it is evidently his interest, to make all possible haste in the business, I endeavoured to ascertain by inquiry how long it was since the order had been given at Killing worth Colliery, and the answer was—" Just a fortnight since the cage was measured for the springs," as they are termed. Now, justly calculating that it would up the same with as much dispatch as possible: it would save all the bargain-making, all the time spent in completing the arrangements with the patentee, and be the means of saving many valuable lives. Such a proposition is, I feel satisfied, but a part of the duty already undertaken by the Government under the "Mines' Inspection Bill," for this safety apparatus would be a permanent inspector, always at its post, constantly on duty, and performing the essentials of the office with more unerring certainty than the gentlemen who may be appointed to those offices. I trust the subject will be thought worthy of the attention of her Majesty's Government.—P. R.: Oct. 29.

PATENT LAW REFORM.

PATENT LAW REFORM.

Sir,—It seems that we unfortunate inventors are at last likely to get our rights attended to, for agitation is rife in every quarter, Patent Law Reform Leagues and Associations being the order of the day. I think we must all be very ready to subscribe to the opinion, that the inventor is entitled to his property on quite as easy terms as the literary author; and why the inventor should not be styled an author I know not. But although I am by no means willing to give up one jot of my rights, I am not so blinded in advocating my own case, as not to acknowledge that, under the title of inventors, all sorts of pretentious plagiarists are continually seeking to engross the property of the public witness the numerous cases where patents are taken out for inventions, either wholly devoid of novelty (and some devoid of utility), or else of so frivolous a character, as

where patents are taken out for inventions, either wholly devoid of novelty (and some devoid of utility), or else of so frivolous a character, as to be nothing but colourable invasions of the public property. Again, it may be stated, without much chance of error, that in the patent list the names of a great number of pirates are mixed up with those of real inventors. Now, to come to the real object of my present communication, without further parley, allow me to remind the promoters of these leagues and associations, that although they have insisted upon the necessity of some things as regards patent reform which are most essential—for instance, the establishment of an index, or analytical list, of all patents granted, and also the simplification of the process of granting patents—yet they have hitherto left out one or two objects of high importance.

1. They appear to be content with reducing the cost of a patent to a payment of 5l. or 10l. per annum.

2. In requiring the simplification of the patent process, they have made no provision as to the allowance of opposition to the grant of a patent in certain cases.

no provision asses.

3. They do not appear to have any distinct idea as to the plan by which patent property should be made more certain, by rendering the legal decisions more easy, expeditious, cheap, and decisive.

As regards the first of these defects, I know of many cases in which the payment of 5l. or 10l. would keep an inventor back nearly as much as the present price. The truth is, many inventors are so poor, that half-a-crown would not be too cheap for them. Now, the sequitur of this would be, therefore, let patents be granted for little or nothing. But stop; let us consider the effect on the inventor and the public. On the inventor very cheap patents would operate most prejudically: he would no sooner have secured his patent than a host of petty pirates would catch his great idea, and rush to the Patent-office, and patent some modification of it; and suppose he should be entitled to the protection of the law against this, what of that? As such parties might gain something by hampering a patentee in this way, they would lose nothing, or next to nothing, and it

would be time enough for them to desist when the law should be enforced against them. As to the public, they would suffer somewhat from the multiplicity of frivolous patents, by finding every avenue of improvement stopped; and, perhaps, things might come to such a pass, that no manufacturer could alter a tool in his workshop without fear of infringing some patent. In patent reform, as in all other reforms, it will be found that the middle course is best.

Let the present enormous charges be removed; but let a sum be charged, just sufficient to check an inordinate growth of patents. Let proper provision be made for opposition before granting a patent, and, this being done, let the evidence which is to defeat a patent after it is granted be very strong and very direct. Moreover, let a proper tribunal be appointed to try patent causes.

done, let the evidence which is to defeat a patent after it is granted be very strong and very direct. Moreover, let a proper tribunal be appointed to try patent causes.

The case of the very poor inventor must not, however, be lost sight of; for remember the true saying—Necessitas est mater artium, which might be paraphrased—"Poverty is the nurse of inventors." His case could not be better met than by a system of provisional registration or patent, which would protect him from any unfairness on the part of the capitalist, and enable him to take the opinion of the public as to his invention. There can be nothing more absurd than to suppose that a poor man can carry out an invention of any importance without a capitalist: to legislate under such an assumption would be folly. The inventor is not singular in being obliged to have resort to the capitalist; all enterprises af any moment are obliged to submit to the capitalist: to some extent.

I see that opinions as to the mode of amending the Patent Laws are as thick as the scattered autumn leaves; in fact, "Chaosis come again." Now, really there seems little necessity for this, for the proposals already sanctioned by the Government and Legislature, with some additions, are, I think, quite sufficient, at all events, for a beginning; for the House of Lords has acknowledged the propriety of provisional registration, though the Committee of the Commons threw it out; and a Government Committee in January, 1849 (see Mining Journal), reported in favour of reducing the expense of a patent for the United Kingdom to 60L—or, for England alone 30L, Scotland 10L, Ireland 10L; also in favour of a much easier mode of passing the patent. Really, I think inventors cannot do better than keep the Government up to this. The appointment of a patent tribunal must not, however, be forgotten.—T. W.: Fleet-street, Nov. 1.

THE COPPER TRADE.

THE COPPER TRADE.

SIR,—Observing in the leading article of your valuable Journal of the 19th Oct, some remarks relative to copper smelting having been introduced into Australia and America, and that such introduction had been induced from the failure of certain smelting companies which had been formed in this country for the purpose of smelting for the mines, I think it right to inform you that one company—Low's Patent Copper Company—whose works are at Penclawdd, on the navigable river Burry, near Swansea, has been in active operation more than two years; and those mines that have entered into arrangements with it have found great advantage in so doing. This company is open to treat with copper mines. amnes that have entered into arrangements with it have round great advantage in so doing. This company is open to treat with copper mines, upon such terms as cannot fail to place them in a much better position than by selling, as at present, their ores at the public ticketings. Low's Company are enabled to enter into these advantageous arrangements with the mines, in consequence of the extreme simplicity and cheapness of their process, by which they are enabled to smelt copper upon terms that cannot be approached by those using the old process of smelting. T. R. London. Oct. 30. London, Oct. 30.

IMPROVEMENTS IN STEAM EXPANSION GEAR.

IMPROVEMENTS IN STEAM EXPANSION GEAR.

Sir,—Permit me to reply to Mr. Wills's remarks on Mr. Atherton's expansion gear, which appeared in your Journal of the 5th October. Mr. Wills, in submitting the plan which he conceives would, in one respective, the reduction of the size of the steam passages—be an improvement on Mr. Atherton's arrangement, has very candidly acknowledged as follows:—"On the other hand, it has the disadvantage, which in a large engine would be very considerable, of requiring a slide of very large dimensions, which would greatly increase the friction, and the ports would possibly not work so steadily as Mr. Atherton's patented arrangement."

The point referred to by Mr. Wills has been duly attended to, and I have no doubt that Mr. Wills will, on full examination, be satisfied of the comparative inapplicability of his suggestion to the full opening of large ports, when the steam is required to be cut off at an early stage of the stroke.

As to the questioned validity of the patent, I am happy to observe that Mr. Wills's remarks on the point are equally candid, as he also makes the following acknowledgment:—"I believe that, mechanically, Mr. Atherton's plan is superior to the other combinations in use for effecting the same thing." This acknowledgment of superiority is all that could be desired. It combines the claim of originality and utility, which points being thus acknowledged, it appears to me that the validity of the patent can scarely be assailed. But apart from the questions of patent law, let the readers of the Mining Journal examine the questions of practicability and utility, and they will find them to be fully answered. Alexander Gordon.

Fludger-street, Westminster, October 30.

ON SOME OF THE USES OF PYROGEN IN NATURE.-No. V. BY JOHN JOSEPH LAKE.

There is something very unsatisfactory in the igneous theory of the origin of heat in the earth, and whilst there is another explanation of the henomenon, there is no reason why we should fly to the hypothesis of internal fires. Experiment even is against it; for if the theory were correct, the heat of the interior strata would increase with an increasing ratio rect, the heat of the interior strata would increase with an increasing ratio the lower we descend into the earth, on account of the absence of direct radiation. But the experiments of Mr. Fox, in some of the deepest mines of Devon and Cornwall, show the reverse of this to be the case—viz.: that for a given increase of temperature the increment of depth was greater. Taking as zero a temperature of 50° at 10° fms., he observed an increase of 10° at 50 ft. below this point; a further increase of 10°, at 72 ft. lower, and another increase of 10° at 114 ft. more of depth; and a second table exhibits similar increments of temperature at intervals of about 37, 78, and 126 fms. Thus, to obtain an increase of 10° in temperature, descents were required of 50, 72, and 114 ft., and 37, 78, and 126 fms., respectively. These different rates of increase in descent are not to be attributed to the escape of heat by the shafts, for this would be more uniform, and not be represented by feet of descent in one table, and by fathoms in another. These experiments are, therefore, opposed to the igneous theory; for it we were approaching an internal fire, or central source of heat, the increment of depth would be less for equal degrees of temperature. Mr. Fox's conclusions are, however, strictly in accordance with the hypothesis, that the heat of the earth is caused by the electric currents circulating in its substance. These currents descend but little depth into its crust, because it is the property of the particles of the electric fluid to repel and force each other from the interior of any body on which they are collected to the surface, on which account they are found only on the exterior of a metal conductor, or roll of wire-gauze. Through the operation of this law the earth is not saturated with the electric matter, as was formerly supposed, but the currents that are circulating about it move as near the surface as possible—as near, in fact, as the conducting power of the soil will admit of; for the matter of the earth offers c the lower we descend into the earth, on account of the absence of direct surrace as possible—as near, in fact, as the conducting power of the soil will admit of; for the matter of the earth offers considerable resistance to the passage of a current of pyrogen, the degree of which depends much upon the distance through which it has to pass, for it is found that the resistance is less for a greater distance than a short one. This is a very natural result, for the fluid has the opportunity of descending to a lower and moister stratum, and, therefore, a better conductor when it passes through a great distance. Were it not for the general state of dryness that prevails near the surface of our globe, the fluid would not descend below, owing to the repulsive force that drives it from the centre; but as it is its nature to follow the best conductor as far as possible, the one peculiarity modifies the other to a certain extent, and it moves by the moister strata beneath giving rise to that increase of temperature, which is supposed by many to be the result of an internal fire. The degree of heat is proportional to the quantity of pyrogen in motion, and the resistance offered to its progress, just as is the case when a piece of fine wire is placed in a galvanic circuit. Mr. Fox's experiments are in accordance with this theory, because the heat is generated laterally, and not vertically (as in the igneous theory), thus accounting better for the irregularity in the intervals of descent. Do they not also, when viewed with this hypothesis, point at the possibility of passing the maximum of heat when mining in some places?

The heat of the earth is not to be attributed altogether to the operation

some places? The heat of the earth is not to be attributed altogether to the oper of pyrogen acting in this direct way; part of it, no doubt, arises thr

the medium of chemical operations going on in the interior of the carth. Peltier's discovery, that a current of the fluid produces heat when travelling from antimony to bismuth, and cold when proceeding in the opposite direction, is not to be forgotten in the consideration of the subject; for bismuth and antimony are nearly the extremes in the electro-thermic series, and it is highly probable that the different strata may act in a similar manner to bismuth and antimony, and, by their electro-thermic conditions, or properties, raise the temperature of the earth higher than it would be through the mere circulation of the electric fluid without this peculiarity.—Portsmouth, October 26.

PROPOSED MINING EXCHANGE.

PROPOSED MINING EXCHANGE.

In pursuance of a circular addressed to the principal agents and parties interested in mining pursuits, a meeting was held at the George and Vulture Tavern, on Tuesday last, the object being the establishment of a Mining Exchange. The meeting was not, however, so fully attended as might have been expected, it appearing from a communication made thereat, that certain capitalists or adventurers in mines, and brokers, had partially formed such establishment, but whose arrangements had not been so perfectly carried out as to justify publicity being given on the occasion. A slight difference, for which we believe no grounds existed, would appear to have pervaded the weeting, the consequence of which was the withdrawal of certain parties, who, it appeared, had taken antecedent measures, and the remaining body expressing themselves in favour of an application to the Committee of the Stock Exchange. It remains, however, to be seen what will be the ultimate result, as there is little doubt but that active measures on the part of those immediately interested in mines would secure to them an independent market.

MINING NOTABILIA.

BRIDESTOWE is a lime deposit, stained a little with greens; what they call native copper is coloured quartz. Nothing like a lode is to be seen. It will not make copper to any extent.

TREWALDER (St. Teath) will make nothing where the engine is; if any quantity of lead is found, it will be further north or south.

OLD TREBURGET and SOUTH TREBURGET are working on a new lode, but not likely to pay.

OLD TREBURGET and SOUTH TREBURGET are working on a new lode, but not likely to pay.

NORTH TREBURGET is coming out by a new company, who intend to search for the east part of Old Treburget lode, which was heaved by a caunter. A fair speculation, if three setts are combined.

WHEAL SARAH engine is again sot to work. The levels in this mine are too confined to allow an opinion to be formed as to what she will make. They have not even pitted off the lode.

TREGERE appears to be in mineral strata: lead and antimony are to be seen in many places, and said to be on different lodes, but it is worked in such a way, that no man can form an opinion. The sett, most certainly, should have a further trial.

TREGARDOCK is about to commence working, and is a fair speculation.
ROUGH TOR is improving, but the progress is spare, in consequence of the nature of the ground. I fear, if any little alteration takes place for the worse, she will be given up by the present party. The mine is certainly worthy of a further trial; and if now given up, the nature of her burrows will get her a fresh capital at some future day.

SHARF TOR has a very promising lode, but so large, that I am inclined to think she will not make copper shallow.

PRENIX is a pretty specimen of a mine at surface, but the present discovery of ore is short.

WHEAL LANGFORD will prove what her neighbours have before her. Good-

Wheal Langford will prove what her neighbours have before her. Goodluck now, I think.

Calstock United is a mine that, if worked with economy above the a dit, with a fire stamp, will pay for a number of years.

Holmbush is improving.

Hergsfron Down Consols is also a very spare mine to work, and will tire the adventurers, if something is not discovered shortly. They are near a junction of two lodes, which may make ore, but not to a great extent.

Drake Walls is much the same as she was 30 years since. She has always been losing money. The improvements in the machinery and dressing have, kept her up. She is now better laid out than I have ever seen her. They raise a great deal of tin, but she will never prove a fortune to the shareholders All the copper mines east are lost in the sands of Wheal Maria.

BRYN-ARIAN (Cardiganshire).—At the request of several of the shareholders, Capt. E. Francis inspected this mine on the 25th Oct., and reports that—"It is in an advanced state of development, several stopes making good profit, and improving as the work proceeds. I noticed three places in particular where a good quantity of ore was being raised. Pensara lode, on which Hallet's shaft is in the course of being sunk, from all appearance, is likely to be highly productive. Pleased as I was with the underground operations, I was not the less so with the machinery on the surface—being of ample power, and well calculated for the various purposes of pumping, crushing, &c.—the whole reflecting much credit on the skill and efficient management of Capt. Trevethan. From the present state and future prospects of the mine, the adventurers may confidently look forward to the time (and that at no great distance) when they will receive adequate return of profits.

East Torigues set lies north of the town of Redruth, and comprises a large

will receive adequate return of profits.

EAST TOLGUS sett lies north of the town of Redruth, and comprises a large piece of ground on the eastern side of a valley, on the western side of which are the mines of North Wheal Buller and South Tolgus, all the lodes of which mines pass through the entire length of East Tolgus. The works in progress for the trial of these are two adit levels, one of which, driving from old Tolgus Mine southward, will cross-cut the whole of the lodes in the western part of the sett. The other adit is also driving south, and will explore the eastern part of the ground. The western adit will probably cut the South Tolgus lodes in three or four months. The eastern adit is also approaching a point where some discoveries may be expected. The adventure is divided into 256 shares.

Wheal May—For some time past the committee of management have been

discoveries may be expected. The adventure is divided into 256 shares.

Wheal May.—For some time past the committee of management have been engaged in carrying out the arrangements entered into at their last two-monthly meeting. The majority of persons who held original shares when the mine was divided into 5000 parts have already compiled with the terms of resolutions which placed the adventure in a position strictly in accordance with the cost-book regulations, such shareholders having signed the cost-book, and paid the call of 5s. a share in the usual manner. Delay has necessarily taken place in proceeding with the works on the mine, but now that a sufficient number of adventurers have united in support of the undertaking, the committee have felt themselves justified in ordering a steam-engine of the best construction, of 14-horse power, to be erected and put to work within five weeks from the present time, by Messra Ash, Swift, and Co., of Thames-street, London, for the sum of 270. The latest report from the mine states that in the deep adit the ground has now the most favourable indications of a near lode, and contains a great proportion of mundie. Now that an engine is actually ordered for the mine, shares are eagerly sought after at improved quotations, and a generally good opinion is entertained of the adventure. There seems to have been reasonable grounds for the delay which has been so often alluded to, and the committee were right in waiting until the adventure could be satisfactorily proceeded with.

Wheal Ann (Phillack).—The engine went to work for the first time, on Saturday last. Its erection and construction were superintended by Mr. Sims, engineer: it is a 75-inch cylinder, and the powerful duty that it has been doing since bas exceeded the most sanguine expectation.

ACCIDENTS.

Kilmarnock.—Henry Hamilton was so severely injured by an accident with a crane, by which he and some other workmen, at the Portland Iron Works, were lifting up some heavy metal pleps, that little hope is entertained of his recovery.

East Ardsley.—Thomas Robertshaw, a miner, was killed by a fall of soal in Magaza.

East Ardstey.—Thomas Robertanaw, a miner, was killed by a tail of coal in Messra. Charlesworth's colliery.

Brazils.—At Passo Tempo Mine, in June last, while in the act of directing the men as to the future working of the mine, Mr. James Clark, formerly of St. Austell, aged 64, was killed by the falling of a quantity of stones, which crushed him in a dreadful manner. He was universally esteemed by all who knew him, both English and Portuguese.

Wednesbury—Another Death from Falliseflows as Old Pit Shaft.—Margaret Trevor, a child four years of age, fell down an old pit shaft, belonging to Messra. Lloyds, Foster, and Co., and was killed.

Schales.—An explosion occurred in Mr. James Bayley's colliery. at Willingsworth, by

Wednesbury—Another Death from Fallisefflows an Old Pit Shaft.—Margaret Trevor, a child four years of age, sell down an old pit shaft, belonging to Mesars. Licyds, Foster, and Co., and was killed.

Sedgiey.—An explosion occurred in Mr. James Bayley's colliery, at Willingsworth, by which five men and four boys were severely burned, two of the latter fatally, as is subsequently tarned out. The deceased were Joseph Tranter and William Ward, both about 13 years of age, and who resided in this parish. Tranter's father was "doggy" of the pit, and having ascerbained in the morning that sulpiun existed in a particular part of the workings, he cautioned all the workmen regarding it. Young Tranter, however, torget the caution, and took a lighted candle into the "back stall" in question.

Durham.—C. Atkinson was killed by the breaking of a chain at Pease's West Colliery. Typon.—Three Men Killed through the Caretesmase of an Engineer.—A dreadful example of the too frequent reckless conduct of those in whose hands are placed the lives of their sellow-workmen, occurred at Mr. James Bagnall's Tividale Collery. A skip, containing three men and two boys, was being drawn up the shaft, and the engineer was so impatient to leave his post for some purpose or other; that he caused the skip to ascend with great velocity, and it was drawn over the pulley. Two of the men fell down the pit, and the others were thrown out on the bank, and were very seriously injured. The engineer (William Hancox) ran away as soon as he saw the catastrophe which had occurred, and abeconded from the neighbourhood. The names of those killed were Isaac Mills and J. Smith; and Joseph Rawley, one of the boys, has since died from the effects of injuries received.—Birmingham Joannal.

Longhor—Affecting Incident.—The son of David Parry, a workman in the Spitty Copper Works, having taken his father's dinner, was gathering coke from the tip near the works with some other children, when he complained of the smell arising from the sulphur, &c., burning below. He seeme

CRAIG-Y-MWYN LEAD MINING COMPANY.

LLANRHADR, MONTGOMERYSHIRE.

In 1600 shares.—Deposit £8 per share—payment, £4 on receipt of scrip, and the remaining £4 in monthly instalments of £1 each, the whole to be paid in four months.

The FORMATION of this COMPANY being now COMPLETED, and the annexed Ruies and Regulations adopted for the government of the Company, the following gentlemen were appointed a Committee of Management:—

RICHARD N.,BROUGHTON, Esq. (Chairman).

THOMAS BIBBY, Esq.

ROBERT BROUGHTON, Esq.

BELL WILLIAMS, Esq., (Scorretary).

WILLIAM LLOYD ASTERLEY, Esq.

BENNELS, Coversatry (1) Route.

PURSER—Thomas Bibby.

LOCAL MANAGER—Edward Hampson.

Applications for the remaining shares to be made to the Secretary, at his office, No. 16 satie-street, Liverpool, where reports, together with plans and sections of the works ay be seen.

SUMMARY OF THE RULES ADOPTED FOR THE GOVERNMENT OF THE

That the adventure be divided into 1600 shares, of £3 each.

That the affairs of the company be managed by a committee of five, three of w.

That the affairs of the company be managed by a committee of five, three of whom shall form a quorum.

Members of committee to possess 50 shares.

General meetings to be held every three months.

That the mine be worked under the Cost-book System.

Accounts to be made up monthly, and paid by the purser, and to be submitted to the general meetings, at which calls, not exceeding the estimate for the succeeding three months shall be made, if required.

Dividends to be declared at general meetings, and committee elected for six months.

Each share to represent one vote—proxies to be held by shareholders only. Officers of the company to be appointed, or removed, at the general meetings, such meetings to be called by circular, giving seven day's notice, with a statement of business to be transacted.

Lists of shareholders to be presented at each general meeting, and be signed by the chairman.

hairman.

All transfer of shares to be passed through the books of the company.

That all monies be paid to the purser, who shall pay the same to the company's bankers, be drawn out by cheques, signed by three members of the committee and the secretary.

Copies of resolutions, and abstract of accounts, to be sent to every shareholder, within your days after general meetings.

Any shareholder to be at liberty to withdraw from the undertaking, by giving threatenths' notice in writing, and paying liabilities up to the expiration of such notice.

LEWELYN AND BANGOR SLATE COMPANY ON THE COST-BOOK PRINCIPLE.

LEWELYN AND BANGOR SLATE COMPANY.

ON THE COST-BOOK PRINCIPLE.

The LLEWELYN QUARRY is a part of set of 30 acres, in the parish of LLANLLE-CHID, CARNARVONSHIRE, at the base of the Llewelyn Mountain, 6 miles from the port of Bangor. A lease for which for 29 years has been secured at the usual royalty. The sett comprises 12 acres of slate and about 20 acres for the deposit of waste, and adjoins the estate of Colone! the Honourable Edward Douglas Gordon Pennant, M.P. The slate bed or lode being a continuation of the great roofing slate formation worked by him at the celebrated Penrhyn Quarry, from which the Llewelyn Quarry is distant about half-a-mile. It will be a matter of surprise to the public to find that a quarry immediately, adjoining the Penrhyn Quarry, which for the last 20 years or more has yielded a profit of upwards of 80,0004, per annum, should now be in the market; the circumstance is, however, thus accounted for.

In the valley at the foot of the Penrhyn Quarry, close to the River Ogwen and the Turnpike-road, the course of the slate has been diverted from a straight line by the uprising of a huge mass of green stone, throwing a portion of the slate bed or lode, which is here about 500 yards wide, to the north-west; this western branch passes under the village of Bethesda, close to which are the Pandraineog and Coytmor Quarries, now in full operation; the other portion of the bed keeps its original course, about north-east, and dips under a lofty ridge of killas or clay-slate, and has hitherto been lost to the miner and geologists. It has, however, tately been discovered, that on the north-east, and dips under a lofty ridge of killas or clay-slate, and has hitherto been lost to the miner and resolved the single of the ridge or mountain, below which point there is sufficient fall for the deposit of waste, and every facility for working a quarry on an extensive scale. The slate is of the firstest quality and colour.

In three months sufficient slate-rock may be cleared of the over lying killas to suppl

MPORTANT DISCOVERY OF SILVER-LEAD MINES.

MPORTANT DISCOVERY OF SILVER-LEAD MINES, part BIRISTOL.—The attention of persons interested in MINING PROPERTY is particularly directed to these available SiLVER-LEAD MINES, recently discovered, and proved at considerable expense. It is proposed to FORM a COMPANY to WORK these MINES, to be called the ITCHINOTON HILL SILVER-LEAD MINING COMPANY, to be conducted on the Cost-book Principle, which, by Act of Pauliament, exempts share-holders from any liability beyond the amount subscribed on their shares.

The sett, or grant, comprises about 80 acres, and is held direct from the Lord of the Manor, at 1-30th dues, or 8 per cent. on the produce, for a period of 21 years, from June, 1850. The situation is highly advantageous, being only 10 miles from Bristol, four from the Wickwar Station, on the Birmingham and Bristol Railway, and within 6 of the River Severn. Several very valuable lodes have been discovered, three of which have been explored to some extent, showing throughout indications of a highly metalliferous quality, which the reports will fully explain, and samples seen at the Company's offices.

From the peculiar situation of the lodes, and the natural character of the district, it is considered that expensive machinery will be unnecessary.

A considerable sum of money has been expended on the only required speculative outlay, the lead being actually discovered. Gossan, fluor-spar, sulphuret of barytes, and other indications of there being a largely productive mine, have been found, fully justifying the shareholders in anticipating a return on the capital invested, equal to the most valuable mine now working.

fring the shareholders in anticipating a return on the capital invesses, equals to valuable militon ow working.

The miles is to be divided into 3072 shares; 2272 of these will be issued to the public, on which £3 per share is to be paid on aigning the Cost-book; this sum the proprietors are fully assured will carry on the works effectually.

Various assays have been male, and the ore is found to be exceedingly rich in silver; one by Mr. Glements, of the Fauthor Load-Works, Bristol, produced 55 per cent. of lead, and 7 lozs. I dwt. of silver to the ton of ore, and valued by him at £19 los. per ton, as produced at the mouth of the mine; another by Mr. Johnson, of 79, Hatton-garden, London, produced 12 cwts. of lead and 63 cas. of silver to the ton. The price of lead ore usually averages about £11 per ton.

Applications for shares to be made to Mr. S. J. Green, at the offices of the Company, No. 9, Hart-street, Bloomsbury-square, London, where specimens of the ore may be seen; and to Mr. Wray, Alveston, near Bristol, with whom the Cost-book will lie for signature, or the convenience of country shareholders.

THE BRITANNIA MINING COMPANY
Capital £40,000, in 8000 shares, of £5 each—(No Calls.)
DIRECTORS.

BAKER, JOHN, Esq.
BROWN, JOHN, Esq.
HART, JOHN, Esq.
HART, JOHN, Esq.
MORPHETT, GEORGE, Esq.
MONTEFIORE, E. L., Esq.
NEALES, JOHN BENTHAM, Esq.
PENNY, CHRISTOPHER S., Esq.

TRUSTRES-G. Tinline, Esq. ; James Bunce, Esq.; P. J. Tod, Esq. BANKERS-Bank of Australasia.
Solicitos-H. W. Parker, Esq. PROSPECTUS.

PROSPECTUS.

This COMPANY has been FORMED for the purpose of WORKING and LEASING for MINERALS, several thousand acres of land, hitherto known as a portion of the 20,000 acres special mineral survey (of which the Kammantoo is 12,000 acres, the Parringa 1000 acres, and this Company the remaining 7000 acres, together with 80 acres since acquired, situated on the River Bremer, in the country of Sturt, about 8 miles cast of the township of Nairne and Mount Barker. The vast extent of valuable minerals existing on this property requires no detailed description in order to recommend it to the public generally. Those mining people disposed to join the Company are invited by inspection to judge for themselves.

An experienced mining agent has been employed to lay out the land into catta, which

for themselves.

An experienced mining agent has been employed to lay out the land into setts, which task he has completed by forming the 7000 acres into 18 setts, each sett reported by him to contain from 3 to 7 well-defined lodes of copper ore, the most of them showing indications of such a favourable character, as to fully justify an outlay of capital.

With a view to produce an early revenue to the proprietors, the directors have leased some of the setts on good terms, and already the Wheal Friendship, Wheal Maria, and

With a view to produce an early revenue to the proprietors, the directors have leased some of the setts on good terms, and already the Wheal Friendalip, Wheal Maria, and others, promise amply to remunerate the Company as well as the leased. The Directors have also laid out a township on the high road to the Murray, and have soid some of the allotments at prices realising £20 per acre. A considerable portion of the surface is also leased for pasturage and agriculture at very advantageous rates.

By these means the directors have the greatest confidence that an immediate and considerable income will be obtained; and to add to this, they now propose to work one or more of the most valuable setts, which have been reserved for the purpose. In the selection of the spot for such operations, they will be guided by the judgment of practical mining captains, assisted (to some extent), by a knowledge of the country, derived from the actual workings in the setts already leased, and it is believed there will be no difficulty in opening at once a paying mine for the proprietary.

The subscribers will participate in the benefits derived from the leases already granted, the sale of the land in the township, and the rents of pasturage, &c., as well as in any result from the future operations of the Company on its own account; and these operations, it is calculated, will be specify productive, as the whole of the £5000 to be raised will be applicable to the development of this most promising mineral district.

One thousand shares are now offered to the public, at £5 per share, which will be qualquarterly payments of £1. The purchasers of shares will have scrip receipts issued to them on the payment of the deposit, and such scrip will be exchangeable at any time for certificates of shares, on paying up the remaining instalments.

Any further information will be given by the undersigned, to whom applications for shares will share be made.

"a," The property belonging to the Britannia Mining Company being in the centre of a MINERAL DISTRICT, a fine field is presented for the ERECTION of SMELTING-WORKS; a considerable quantity at low per centage or is already accumulated at the various workings in the neighbourhood, and abundance of wood for fuel, and proper materials for fluxes, may be obtained at a very moderate cost. Should the majority of the propriotary, therefore, think it desirable that any portion of the capital of the Company should be disposed of for the purpose of smelting on the property, the Company has the

BRISTOL AND EXETER RAILWAY.—CONTRACT for the MAKING and DELIVERY of COKE, and for the HORSE-WORK and OTHER WORK connected therewith, at BRIDGEWATER.—The Directors of the Bristol and Excler Railway Company are desired incus of RECEIVING TENDERS for the MAKING of COKE, for Three, Six, or Twelve Months.

Specifications may be obtained on application to the Secretary, in Bristol; or to the ingineer, at No. 1, Delahay-street, Westmuster, on and after Monday, the 28th October, Tenders must be sent to the Secretary on or before Wednesday, the 6th November.

By order of the Directors,

J. B. BADHAM, Secretary.

Bristol Office, Temple-meads, Oct. 23, 1850.

STEAM TO INDIA AND CHINA, VIA EGYPT.—Regular MONTILLY MAIL (steam conveyance) for PASSENGERS and LIGHT GOODS to GEYLON, MADRAS, CALCUITA, PENANG, SINGAPORE, and HONG-EONG.

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THE PENINSULAR AND ORIENTAL STEAM NAVIGATION COMPANY
BOOK PASSENGERS and RECEIVE GODDS and PARCELS for the ABOVE PORTS
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by the Honourable East India Company's steamers.

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SOPLE—On the 39th of the month. ALEXANDELA—On the 30th of the month.

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W. BROTHERTON & CO. take the present opportunity of again bringing before the notice of the public their PATENT MACHINE and LAMP OIL, and at the same time thanking their friends for the liberal support and patronage they have received during the past four years. Their best thanks are also tendered to those practical engineers, and scientific gentiemen, threugh whose kind communications, upon lubrication and frictional resistance, they have been enabled to bring their PATENT OIL to a state of chemical perfection not previously contemplated.

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W. BROTHERTON & CO. consider it unsecessary to publish any of the numerous and flattering testimonials they have received; but they will st all times feel happy in giving every information on the subject, and in receiving any communication likely to further the object they have in view.

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October, 1850.

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UNDER BRITISH AND FOREIGN LETTERS PATENT.

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London: Printed by Richard Middleron, and published by Henry English (the projectors), at their offices, No. 26, Flery-Street, where all communications are a quested to be addressed.

(November 2, 1356.